

## Safety Data Sheet



"11/194"

Revision date: 10/27/2020

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**1. Identification****Product identifier**

"11/194"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name:	STABLO International GmbH	
Street:	Schwanweg 1	
Place:	D-90562 Heroldsberg	
Post-office box:	Postfach 1	
	D-90560 Heroldsberg	
Telephone:	+49 (0)911567-0	Telefax: +49 (0)911567-4444
e-mail:	info@stabilo.com	
Contact person:	Tobias Fendt	Telephone: +49 (0)911-567-1260
e-mail:	productsafety@stabilo.com	
Internet:	http://www.stabilo.com/	
Responsible Department:	Central Quality Management	
<b>Emergency phone number:</b>	+49 (0)89-19240 (Germany)	

**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	



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**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Disposal: see section 13



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**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.



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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	"Cloudy Blue"
pH-Value:	6,5 - 8

**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure:	not determined
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Density (at 20 °C):	not determined
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Water solubility:	easily soluble
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
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**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.





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**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 mg/kg	670	Rat	Study report (1988) OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1994) OECD Guideline 402
	inhalation vapour	ATE	0,5 mg/l		
	inhalation aerosol	ATE	0,05 mg/l		

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.



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**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Special precautions for user**

No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 10/27/2020

Revision No: 1,0

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate



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LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



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**1. Identification****Product identifier**

"11/158"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: STABILO International GmbH

Street: Schwanweg 1

Place: D-90562 Heroldsberg

Post-office box: Postfach 1

D-90560 Heroldsberg

Telephone: +49 (0)911567-0

Telefax: +49 (0)911567-4444

e-mail: info@stabilo.com

Contact person: Tobias Fendt

Telephone: +49 (0)911-567-1260

e-mail: productsafety@stabilo.com

Internet: http://www.stabilo.com/

Responsible Department: Central Quality Management

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	



## Safety Data Sheet

STABILO International GmbH

Revision date: 10/27/2020

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**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13



## Safety Data Sheet

STABILO International GmbH

Revision date: 10/27/2020

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**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.



## Safety Data Sheet

STABILO International GmbH

Revision date: 10/27/2020

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	"Cloudy Blue"
pH-Value:	6,5 - 8

**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure:	not determined
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Density (at 20 °C):	not determined
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Water solubility:	easily soluble
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
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**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.

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**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 mg/kg 670	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 mg/kg > 2000	Rat	Study report (1994)	OECD Guideline 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.





## Safety Data Sheet

STABILO International GmbH

"11/158"

Revision date: 10/27/2020

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**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Special precautions for user**

No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 10/27/2020

Revision No: 1,0

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate



## Safety Data Sheet

STABILO International GmbH

"11/158"

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LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road )  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern  
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"OD 433"**

Revision date: 15.06.2018

Product code: 800431

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**1. Identification****Product identifier**

"OD 433"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.00876 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
 Never give anything by mouth to an unconscious person or a person with cramps.  
 If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.



## Safety Data Sheet

**"OD 433"**

Revision date: 15.06.2018

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If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Safe handling: see section 7  
Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8



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Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Liquid

Color:

pH-Value: 5,55 - 6,05

**Changes in the physical state**

Density (at 20 °C): 1,068 g/cm<sup>3</sup>

Viscosity / dynamic: 2,7 mPa·s



## Safety Data Sheet

## "OD 433"

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Product code: 800431

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## 10. Stability and reactivity

**Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

## 11. Toxicological information

**Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

## 12. Ecological information

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

## 13. Disposal considerations

**Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

## 14. Transport information



## Safety Data Sheet

## "OD 433"

Revision date: 15.06.2018

Product code: 800431

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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information****Changes**

Revision date: 15.06.2018

Revision No: 1,1

This data sheet contains changes from the previous version in section(s): 9.

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"11/116"**

Revision date: 12.02.2018

Product code: 1052540

Page 1 of 5

**1. Identification****Product identifier**

"11/116"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0.009 %

Full text of H and EUH statements: see section 16.

**Further Information**

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.





## Safety Data Sheet

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Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
@0601.B060004

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do



## Safety Data Sheet

"11/116"

Revision date: 12.02.2018

Product code: 1052540

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not eat, drink or smoke. Personal protection equipment (PPE): see section 8

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Additional advice on limit values**

not applicable

**Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

not applicable

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Liquid

Color:

"Minthauch"

pH-Value:

5,5 - 8

**Changes in the physical state****10. Stability and reactivity****Chemical stability**



## Safety Data Sheet

**"11/116"**

Revision date: 12.02.2018

Product code: 1052540

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Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

In case of warming: Formation of: Hazardous decomposition products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information****Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**Special precautions for user**

not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**



## Safety Data Sheet

"11/116"

Revision date: 12.02.2018

Product code: 1052540

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not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 12.02.2018

Revision No: 1,0

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"OD 455"**

Revision date: 15.06.2018

Product code: 800055

Page 1 of 5

**1. Identification****Product identifier**

"OD 455"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.00876 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
 Never give anything by mouth to an unconscious person or a person with cramps.  
 If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.



## Safety Data Sheet

**"OD 455"**

Revision date: 15.06.2018

Product code: 800055

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If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).

Call a physician immediately.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.

Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8



## Safety Data Sheet

## "OD 455"

Revision date: 15.06.2018

Product code: 800055

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Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Liquid

Color:

pH-Value: 5,5 - 7

**Changes in the physical state**

Density (at 20 °C): 1,064 g/cm<sup>3</sup>

Viscosity / dynamic: 3,0 mPa·s



## Safety Data Sheet

**"OD 455"**

Revision date: 15.06.2018

Product code: 800055

Page 4 of 5

**10. Stability and reactivity****Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information**





## Safety Data Sheet

## "OD 455"

Revision date: 15.06.2018

Product code: 800055

Page 5 of 5

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 15.06.2018

Revision No: 1,1

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"11/155"**

Revision date: 12.02.2018

Product code: 1052543

Page 1 of 5

**1. Identification****Product identifier**

"11/155"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.00876 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
 Never give anything by mouth to an unconscious person or a person with cramps.  
 If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.  
 If breathing is irregular or stopped, administer artificial respiration.



## Safety Data Sheet

"11/155"

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**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Safe handling: see section 7  
Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8

Never use pressure to empty container. Keep/Store only in original container.



## Safety Data Sheet

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Product code: 1052543

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Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Liquid

Color:

"Lila Dunst"

pH-Value:

5,5 - 7

**Changes in the physical state**

Density (at 20 °C):

1,064 g/cm<sup>3</sup>

**10. Stability and reactivity****Chemical stability**



## Safety Data Sheet

**"11/155"**

Revision date: 12.02.2018

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Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information****Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information**



## Safety Data Sheet

"11/155"

Revision date: 12.02.2018

Product code: 1052543

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**U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 12.02.2018

Revision No: 1,0

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"OD 458"**

Revision date: 15.06.2018

Product code: 800436

Page 1 of 5

**1. Identification****Product identifier**

"OD 458"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.00876 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
 Never give anything by mouth to an unconscious person or a person with cramps.  
 If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.



## Safety Data Sheet

## "OD 458"

Revision date: 15.06.2018

Product code: 800436

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If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Safe handling: see section 7  
Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8





## Safety Data Sheet

**"OD 458"**

Revision date: 15.06.2018

Product code: 800436

Page 3 of 5

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Liquid

Color:

pH-Value: 5,5 - 6,5

**Changes in the physical state**

Density (at 20 °C): 1,064 g/cm<sup>3</sup>

Viscosity / dynamic: 3,0 mPa·s



## Safety Data Sheet

## "OD 458"

Revision date: 15.06.2018

Product code: 800436

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## 10. Stability and reactivity

**Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

## 11. Toxicological information

**Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

## 12. Ecological information

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

## 13. Disposal considerations

**Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

## 14. Transport information



## Safety Data Sheet

## "OD 458"

Revision date: 15.06.2018

Product code: 800436

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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information****Changes**

Revision date: 15.06.2018

Revision No: 1,1

This data sheet contains changes from the previous version in section(s): 3,9.

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

STABILO International GmbH

"11/140"

Revision date: 10/27/2020

Page 1 of 7

**1. Identification****Product identifier**

**Use of the substance/mixture**  
**Recommended use of the chemical and restrictions on use**  
 Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name:	STABILO International GmbH	
Street:	Schwanweg 1	
Place:	D-90562 Heroldsberg	
Post-office box:	Postfach 1	
	D-90560 Heroldsberg	
Telephone:	+49 (0)911567-0	Telefax: +49 (0)911567-4444
e-mail:	info@stabilo.com	
Contact person:	Tobias Fendt	Telephone: +49 (0)911-567-1260
e-mail:	productsafety@stabilo.com	
Internet:	http://www.stabilo.com/	
Responsible Department:	Central Quality Management	
<b>Emergency phone number:</b>	+49 (0)89-19240 (Germany)	

**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	



## Safety Data Sheet

STABILO International GmbH

Revision date: 10/27/2020

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**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13



## Safety Data Sheet

STABILO International GmbH

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**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.



## Safety Data Sheet

STABILO International GmbH

"11/140"

Revision date: 10/27/2020

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	"Cloudy Blue"
pH-Value:	6,5 - 8

**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure:	not determined
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Density (at 20 °C):	not determined
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Water solubility:	easily soluble
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
--	----------------

Relative vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
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**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.

## Safety Data Sheet

"11/140"

Revision date: 10/27/2020

Page 5 of 7

**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 mg/kg 670	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 mg/kg > 2000	Rat	Study report (1994)	OECD Guideline 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.





## Safety Data Sheet

STABILO International GmbH

Revision date: 10/27/2020

Page 6 of 7

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Special precautions for user**

No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 10/27/2020

Revision No: 1,0

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate



## Safety Data Sheet

STABILO International GmbH

"11/140"

Revision date: 10/27/2020

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LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

"11/144"

Revision date: 12.02.2018

Product code: 1052533

Page 1 of 5

**1. Identification****Product identifier**

"11/144"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
Street: Schwanweg 1  
Place: D-90562 Heroldsberg  
Post-office box: Postfach 1  
D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
e-mail: info@stabilo.com  
Contact person: Tobias Fendt  
e-mail: tobias.fendt@stabilo.com  
Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0.009 %

Full text of H and EUH statements: see section 16.

**Further Information**

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.



## Safety Data Sheet

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Revision date: 12.02.2018

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Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
@0601.B060004

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do



## Safety Data Sheet

"11/144"

Revision date: 12.02.2018

Product code: 1052533

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not eat, drink or smoke. Personal protection equipment (PPE): see section 8

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Additional advice on limit values**

not applicable

**Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

not applicable

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Liquid

Color:

"Milchig Gelb"

pH-Value:

5,5 - 8

**Changes in the physical state****10. Stability and reactivity****Chemical stability**



## Safety Data Sheet

"11/144"

Revision date: 12.02.2018

Product code: 1052533

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Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

In case of warming: Formation of: Hazardous decomposition products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information****Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**Special precautions for user**

not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**



## Safety Data Sheet

"11/144"

Revision date: 12.02.2018

Product code: 1052533

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not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 12.02.2018

Revision No: 1,0

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"OD 454"**

Revision date: 15.06.2018

Product code: 800434

Page 1 of 5

**1. Identification****Product identifier**

"OD 454"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.00876 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
 Never give anything by mouth to an unconscious person or a person with cramps.  
 If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.





## Safety Data Sheet

**"OD 454"**

Revision date: 15.06.2018

Product code: 800434

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If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).

Call a physician immediately.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.

Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8



## Safety Data Sheet

**"OD 454"**

Revision date: 15.06.2018

Product code: 800434

Page 3 of 5

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Liquid

Color:

pH-Value: 5,55 - 6,05

**Changes in the physical state**

Density (at 20 °C): 1,067 g/cm<sup>3</sup>

Viscosity / dynamic: 2,8 mPa·s



## Safety Data Sheet

**"OD 454"**

Revision date: 15.06.2018

Product code: 800434

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**10. Stability and reactivity****Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information**



## Safety Data Sheet

## "OD 454"

Revision date: 15.06.2018

Product code: 800434

Page 5 of 5

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information****Changes**

Revision date: 15.06.2018

Revision No: 1,1

This data sheet contains changes from the previous version in section(s): 9.

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

STABILO International GmbH

"11/125"

Revision date: 10/27/2020

Page 1 of 7

**1. Identification****Product identifier**

"11/125"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: STABILO International GmbH

Street: Schwanweg 1

Place: D-90562 Heroldsberg

Post-office box: Postfach 1

D-90560 Heroldsberg

Telephone: +49 (0)911567-0

e-mail: info@stabilo.com

Contact person: Tobias Fendt

e-mail: productsafety@stabilo.com

Internet: http://www.stabilo.com/

Responsible Department: Central Quality Management

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:**

+49 (0)89-19240 (Germany)

**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	



## Safety Data Sheet

STABILO International GmbH

"11/125"

Revision date: 10/27/2020

Page 2 of 7

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Disposal: see section 13



## Safety Data Sheet

STABILO International GmbH

Revision date: 10/27/2020

Page 3 of 7

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.



## Safety Data Sheet

STABILO International GmbH

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	"Cloudy Blue"
pH-Value:	6,5 - 8

**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure:	not determined
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Density (at 20 °C):	not determined
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Water solubility:	easily soluble
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
--	----------------

Relative vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
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**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.



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**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 670 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1994)	OECD Guideline 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.



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**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Special precautions for user**

No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 10/27/2020

Revision No: 1,0

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate



## Safety Data Sheet

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"11/125"

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LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

"11/129"

Revision date: 12.02.2018

Product code: 1052541

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**1. Identification****Product identifier**

"11/129"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0.009 %

Full text of H and EUH statements: see section 16.

**Further Information**

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.



## Safety Data Sheet

"11/129"

Revision date: 12.02.2018

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Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
@0601.B060004

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do



## Safety Data Sheet

"11/129"

Revision date: 12.02.2018

Product code: 1052541

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not eat, drink or smoke. Personal protection equipment (PPE): see section 8

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Additional advice on limit values**

not applicable

**Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

not applicable

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Liquid

Color:

"Pink erröten"

pH-Value:

5,5 - 8

**Changes in the physical state****10. Stability and reactivity****Chemical stability**



## Safety Data Sheet

"11/129"

Revision date: 12.02.2018

Product code: 1052541

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Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

In case of warming: Formation of: Hazardous decomposition products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information****Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**Special precautions for user**

not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**



## Safety Data Sheet

"11/129"

Revision date: 12.02.2018

Product code: 1052541

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not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 12.02.2018

Revision No: 1,0

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*





## Safety Data Sheet

STABILO International GmbH

according to 29 CFR 1910.1200(g)

"OD 456"

Revision date: 01/30/2020

Page 1 of 6

### 1. Identification

#### Product identifier

"OD 456"

#### Recommended use of the chemical and restrictions on use

##### Use of the substance/mixture

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

#### Details of the supplier of the safety data sheet

Company name:	STABILO International GmbH	
Street:	Schwanweg 1	
Place:	D-90562 Heroldsberg	
Post-office box:	Postfach 1	
	D-90560 Heroldsberg	
Telephone:	+49 (0)911567-0	Telefax: +49 (0)911567-4444
e-mail:	info@stabilo.com	
Contact person:	Tobias Fendt	Telephone: +49 (0)911-567-1260
e-mail:	productsafety@stabilo.com	
Internet:	http://www.stabilo.com/	
Responsible Department:	Central Quality Management	
<b>Emergency phone number:</b>	+49 (0)89-19240 (Germany)	

### 2. Hazard(s) identification

#### Classification of the chemical

##### 29 CFR Part 1910.1200

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

#### Label elements

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Hazardous components

CAS No	Components	Quantity
3068-39-1	C.I. Basic Red 1:1	0.218 %

### 4. First-aid measures

#### Description of first aid measures

##### General information

When in doubt or if symptoms are observed, get medical advice.  
 Never give anything by mouth to an unconscious person or a person with cramps.  
 If unconscious but breathing normally, place in recovery position and seek medical advice.

##### After inhalation

Provide fresh air.

**Safety Data Sheet**

STABILO International GmbH

according to 29 CFR 1910.1200(g)

**"OD 456"**

Revision date: 01/30/2020

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**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities**

**Safety Data Sheet**

STABILO International GmbH

according to 29 CFR 1910.1200(g)

**"OD 456"**

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**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Liquid

Color:

dark pink

pH-Value:

5,5 - 6,5

**Changes in the physical state**

Melting point/freezing point:

not determined



## Safety Data Sheet

according to 29 CFR 1910.1200(g)

## "OD 456"

Revision date: 01/30/2020

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Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined
<b>Flammability</b>	
Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
<b>Self-ignition temperature</b>	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
<b>Oxidizing properties</b>	
Not oxidising.	
Vapor pressure:	not determined
Density (at 20 °C):	1,064 g/cm <sup>3</sup>
Water solubility:	easily soluble
<b>Solubility in other solvents</b>	
not determined	
Partition coefficient n-octanol/water:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined
<b><u>Other information</u></b>	
Solid content:	not determined

**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.

**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects**



## Safety Data Sheet

according to 29 CFR 1910.1200(g)

## "OD 456"

Revision date: 01/30/2020

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## Acute toxicity

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
3068-39-1	C.I. Basic Red 1:1				
	oral	LD50 449 mg/kg	Rat	Study report (1978)	OECD Guideline 401
	inhalation vapour	ATE 0,05 mg/l			
	inhalation (4 h) aerosol	LC50 0,05 - 0,5 mg/l	Rat	Study report (2017)	OECD Guideline 403

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

## Additional information on tests

The mixture is classified as not hazardous according to Directive 1999/45/EC.

## Further information

There are no data available on the mixture itself.

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Reference to other sections: 2, 3

## 12. Ecological information

## Ecotoxicity

The product is not: Ecotoxic.

## Persistence and degradability

The product has not been tested.

## Bioaccumulative potential

The product has not been tested.

## Mobility in soil

The product has not been tested.

## Other adverse effects

No information available.

## Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## 13. Disposal considerations

## Waste treatment methods

## Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## 14. Transport information

## Special precautions for user

No information available.

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**Safety Data Sheet**

STABILO International GmbH

according to 29 CFR 1910.1200(g)

**"OD 456"**

Revision date: 01/30/2020

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not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

C.I. Basic Red 1:1 (3068-39-1): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 01/30/2020

Revision No: 1,1

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"OD 440"**

Revision date: 30.11.2017

Product code: 800432

Page 1 of 5

**1. Identification****Product identifier**

"OD 440"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
Street: Schwanweg 1  
Place: D-90562 Heroldsberg  
Post-office box: Postfach 1  
D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
e-mail: info@stabilo.com  
Contact person: Tobias Fendt  
e-mail: tobias.fendt@stabilo.com  
Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.00876 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.



## Safety Data Sheet

## "OD 440"

Revision date: 30.11.2017

Product code: 800432

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If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Safe handling: see section 7  
Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8





## Safety Data Sheet

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Revision date: 30.11.2017

Product code: 800432

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Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Liquid

Color:

pH-Value: 5,55 - 6,05

**Changes in the physical state**

Density (at 20 °C): 1,066 g/cm<sup>3</sup>

Viscosity / dynamic: 2,81 mPa·s



## Safety Data Sheet

**"OD 440"**

Revision date: 30.11.2017

Product code: 800432

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**10. Stability and reactivity****Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information**



## Safety Data Sheet

## "OD 440"

Revision date: 30.11.2017

Product code: 800432

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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information****Changes**

Revision date: 30.11.2017

Revision No: 1,1

This data sheet contains changes from the previous version in section(s): 3,9.

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

"11/113"

Revision date: 12.02.2018

Product code: 1052542

Page 1 of 5

**1. Identification****Product identifier**

"11/113"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0.009 %

Full text of H and EUH statements: see section 16.

**Further Information**

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.



## Safety Data Sheet

"11/113"

Revision date: 12.02.2018

Product code: 1052542

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Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
@0601.B060004

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do



## Safety Data Sheet

"11/113"

Revision date: 12.02.2018

Product code: 1052542

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not eat, drink or smoke. Personal protection equipment (PPE): see section 8

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Additional advice on limit values**

not applicable

**Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

not applicable

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Liquid

Color:

"Türkiszart"

pH-Value:

5,5 - 8

**Changes in the physical state****10. Stability and reactivity****Chemical stability**



## Safety Data Sheet

"11/113"

Revision date: 12.02.2018

Product code: 1052542

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Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

In case of warming: Formation of: Hazardous decomposition products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information****Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**Special precautions for user**

not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**



## Safety Data Sheet

"11/113"

Revision date: 12.02.2018

Product code: 1052542

Page 5 of 5

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 12.02.2018

Revision No: 1,0

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*





## Safety Data Sheet

**"OD 351"**

Revision date: 15.06.2018

Product code: 800949

Page 1 of 5

**1. Identification****Product identifier**

"OD 351"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.00777 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.



## Safety Data Sheet

## "OD 351"

Revision date: 15.06.2018

Product code: 800949

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If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).

Call a physician immediately.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.

Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8



## Safety Data Sheet

## "OD 351"

Revision date: 15.06.2018

Product code: 800949

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Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Liquid

Color:

pH-Value: 5,55 - 6,05

**Changes in the physical state**

Density (at 20 °C): 1,067 g/cm<sup>3</sup>

Viscosity / dynamic: 2,7 mPa·s



## Safety Data Sheet

**"OD 351"**

Revision date: 15.06.2018

Product code: 800949

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**10. Stability and reactivity****Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information**



## Safety Data Sheet

## "OD 351"

Revision date: 15.06.2018

Product code: 800949

Page 5 of 5

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information****Changes**

Revision date: 15.06.2018

Revision No: 1,1

This data sheet contains changes from the previous version in section(s): 9.

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"D 524"**

Revision date: 15.06.2018

Product code: 803450

Page 1 of 5

**1. Identification****Product identifier**

"D 524"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
Street: Schwanweg 1  
Place: D-90562 Heroldsberg  
Post-office box: Postfach 1  
D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
e-mail: info@stabilo.com  
Contact person: Tobias Fendt  
e-mail: tobias.fendt@stabilo.com  
Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.01362 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.



## Safety Data Sheet

**"D 524"**

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Product code: 803450

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If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).

Call a physician immediately.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.

Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8



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**"D 524"**

Revision date: 15.06.2018

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Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Liquid

Color:

pH-Value: 5,5 - 6,05

**Changes in the physical state**

Density (at 20 °C): 1,082 g/cm<sup>3</sup>

**10. Stability and reactivity**





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**Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information****Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable



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**"D 524"**

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**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information****Changes**

Revision date: 15.06.2018

Revision No: 1,1

This data sheet contains changes from the previous version in section(s): 3,9.

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"OD 431"**

Revision date: 19.06.2018

Product code: 755156

Page 1 of 7

**1. Identification****Product identifier**

"OD 431"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.00876 %

Full text of H and EUH statements: see section 16.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious place in recovery position and seek medical advice.



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**After inhalation**

Provide fresh air. Remove casualty to fresh air and keep warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**After ingestion**

Rinse mouth immediately and drink plenty of water. If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>),  
Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable. Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus. Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Safe handling: see section 7  
Personal protection equipment (PPE): see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains.



## Safety Data Sheet

## "OD 431"

Revision date: 19.06.2018

Product code: 755156

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In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

Notice the directions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.



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**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

**Eye/face protection**

Wear eye protection/face protection. Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer. Use protective skin cream before handling the product.

**Skin protection**

Wear suitable protective clothing. Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	
pH-Value:	5,5 - 7
<b>Changes in the physical state</b>	
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not determined
<b>Flammability</b>	
Solid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
<b>Auto-ignition temperature</b>	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
<b>Oxidizing properties</b>	
Not oxidising.	
Vapor pressure:	not determined
Density (at 20 °C):	1,067 g/cm³
Water solubility:	easily soluble



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**Solubility in other solvents**

not determined

Partition coefficient:

not determined

Viscosity / dynamic:

2,7 mPa·s

Vapor density:

not determined

Evaporation rate:

not determined

**Other information**

Solid content:

not determined

**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

Hazardous combustion products

**Incompatible materials**

No information available.

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Additional information on tests**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**



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Product code: 755156

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The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information****Special precautions for user**

No information available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 19.06.2018

Revision No: 1,0





## Safety Data Sheet

## "OD 431"

Revision date: 19.06.2018

Product code: 755156

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**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

STABILO International GmbH

"11/112"

Revision date: 10/27/2020

Page 1 of 7

**1. Identification****Product identifier**

"11/112"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: STABILO International GmbH

Street: Schwanweg 1

Place: D-90562 Heroldsberg

Post-office box: Postfach 1

D-90560 Heroldsberg

Telephone: +49 (0)911567-0

Telefax: +49 (0)911567-4444

e-mail: info@stabilo.com

Contact person: Tobias Fendt

Telephone: +49 (0)911-567-1260

e-mail: productsafety@stabilo.com

Internet: http://www.stabilo.com/

Responsible Department: Central Quality Management

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	



## Safety Data Sheet

STABILO International GmbH

"11/112"

Revision date: 10/27/2020

Page 2 of 7

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Disposal: see section 13



## Safety Data Sheet

STABILO International GmbH

"11/112"

Revision date: 10/27/2020

Page 3 of 7

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.



## Safety Data Sheet

STABILO International GmbH

"11/112"

Revision date: 10/27/2020

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	"Cloudy Blue"
pH-Value:	6,5 - 8

**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure:	not determined
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Density (at 20 °C):	not determined
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Water solubility:	easily soluble
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
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**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.

## Safety Data Sheet

"11/112"

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**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 mg/kg 670	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 mg/kg > 2000	Rat	Study report (1994)	OECD Guideline 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.



## Safety Data Sheet

STABILO International GmbH

"11/112"

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**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Special precautions for user**

No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 10/27/2020

Revision No: 1,0

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate



## Safety Data Sheet

STABILO International GmbH

"11/112"

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LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*





## Safety Data Sheet

STABILO International GmbH

"11/150"

Revision date: 10/27/2020

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**1. Identification****Product identifier**

"11/150"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name:	STABILO International GmbH	
Street:	Schwanweg 1	
Place:	D-90562 Heroldsberg	
Post-office box:	Postfach 1	
	D-90560 Heroldsberg	
Telephone:	+49 (0)911567-0	Telefax: +49 (0)911567-4444
e-mail:	info@stabilo.com	
Contact person:	Tobias Fendt	Telephone: +49 (0)911-567-1260
e-mail:	productsafety@stabilo.com	
Internet:	http://www.stabilo.com/	
Responsible Department:	Central Quality Management	
<b>Emergency phone number:</b>	+49 (0)89-19240 (Germany)	

**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	



## Safety Data Sheet

STABILO International GmbH

"11/150"

Revision date: 10/27/2020

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**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Disposal: see section 13



## Safety Data Sheet

STABILO International GmbH

"11/150"

Revision date: 10/27/2020

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**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.



## Safety Data Sheet

STABILO International GmbH

"11/150"

Revision date: 10/27/2020

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	"Cherry Blossom"
pH-Value:	6,5 - 8

**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure:	not determined
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Density (at 20 °C):	not determined
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Water solubility:	easily soluble
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
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**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.

## Safety Data Sheet

"11/150"

Revision date: 10/27/2020

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**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 mg/kg 670	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 mg/kg > 2000	Rat	Study report (1994)	OECD Guideline 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.



## Safety Data Sheet

STABILO International GmbH

"11/150"

Revision date: 10/27/2020

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**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****Special precautions for user**

No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 10/27/2020

Revision No: 1,0

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

MARPOL: International Convention for the Prevention of Marine Pollution from Ships



## Safety Data Sheet

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"11/150"

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IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

STABILO International GmbH

"11/111"

Revision date: 10/27/2020

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**1. Identification****Product identifier**

"11/111"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: STABILO International GmbH

Street: Schwanweg 1

Place: D-90562 Heroldsberg

Post-office box: Postfach 1

D-90560 Heroldsberg

Telephone: +49 (0)911567-0

Telefax: +49 (0)911567-4444

e-mail: info@stabilo.com

Contact person: Tobias Fendt

Telephone: +49 (0)911-567-1260

e-mail: productsafety@stabilo.com

Internet: http://www.stabilo.com/

Responsible Department: Central Quality Management

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	





## Safety Data Sheet

STABILO International GmbH

"11/111"

Revision date: 10/27/2020

Page 2 of 7

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Disposal: see section 13



## Safety Data Sheet

"11/111"

Revision date: 10/27/2020

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**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.



## Safety Data Sheet

STABILO International GmbH

"11/111"

Revision date: 10/27/2020

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	"Cloudy Blue"
pH-Value:	6,5 - 8

**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure:	not determined
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Density (at 20 °C):	not determined
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Water solubility:	easily soluble
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
----------------	----------------

**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.



## Safety Data Sheet

"11/111"

Revision date: 10/27/2020

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**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 mg/kg	670	Rat	Study report (1988) OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1994) OECD Guideline 402
	inhalation vapour	ATE	0,5 mg/l		
	inhalation aerosol	ATE	0,05 mg/l		

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.



## Safety Data Sheet

STABILO International GmbH

"11/111"

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**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Special precautions for user**

No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 10/27/2020

Revision No: 1,0

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate



## Safety Data Sheet

STABILO International GmbH

"11/111"

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LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

**"11/126"**

Revision date: 12.02.2018

Product code: 1052539

Page 1 of 5

**1. Identification****Product identifier**

"11/126"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: Stabilo International GmbH  
 Street: Schwanweg 1  
 Place: D-90562 Heroldsberg  
 Post-office box: Postfach 1  
 D-90560 Heroldsberg

Telephone: +49 (0)911567-0  
 e-mail: info@stabilo.com  
 Contact person: Tobias Fendt  
 e-mail: tobias.fendt@stabilo.com  
 Internet: http://www.stabilo.com/

Telefax: +49 (0)911567-4444

Telephone: +49 (0)911-567-1260

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0.009 %

Full text of H and EUH statements: see section 16.

**Further Information**

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.



## Safety Data Sheet

"11/126"

Revision date: 12.02.2018

Product code: 1052539

Page 2 of 5

Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Immediately remove any contaminated clothing, shoes or stockings.  
After contact with skin, wash immediately with plenty of water and soap.  
Do not wash with: Solvents/Thinner

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
@0601.B060004

**Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do





## Safety Data Sheet

"11/126"

Revision date: 12.02.2018

Product code: 1052539

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not eat, drink or smoke. Personal protection equipment (PPE): see section 8

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

**Hints on joint storage**

Do not store together with: Oxidising agent, Strong acid, Strong alkali

**Further information on storage conditions**

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Additional advice on limit values**

not applicable

**Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.

Use protective skin cream before handling the product.

**Skin protection**

Overall (Natural fibres (e.g. cotton))

**Respiratory protection**

not applicable

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Liquid

Color:

"Pfirsichcreme"

pH-Value:

5,5 - 8

**Changes in the physical state****10. Stability and reactivity****Chemical stability**



## Safety Data Sheet

"11/126"

Revision date: 12.02.2018

Product code: 1052539

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Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

**Conditions to avoid**

In case of warming: Formation of: Hazardous decomposition products

**Hazardous decomposition products**Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**Contaminated packaging**

Completely emptied packages can be recycled.

Dispose according to legislation.

**14. Transport information****Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**Special precautions for user**

not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**



## Safety Data Sheet

"11/126"

Revision date: 12.02.2018

Product code: 1052539

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not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 12.02.2018

Revision No: 1,0

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



## Safety Data Sheet

STABILO International GmbH

"11/133"

Revision date: 10/27/2020

Page 1 of 7

**1. Identification****Product identifier**

"11/133"

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Reserved for industrial and professional use.

Sector of uses [SU]:

- Articles for printing and writing:
- Pens

**Details of the supplier of the safety data sheet**

Company name: STABILO International GmbH

Street: Schwanweg 1

Place: D-90562 Heroldsberg

Post-office box: Postfach 1

D-90560 Heroldsberg

Telephone: +49 (0)911567-0

Telefax: +49 (0)911567-4444

e-mail: info@stabilo.com

Contact person: Tobias Fendt

Telephone: +49 (0)911-567-1260

e-mail: productsafety@stabilo.com

Internet: http://www.stabilo.com/

Responsible Department: Central Quality Management

**Emergency phone number:** +49 (0)89-19240 (Germany)**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**Label elements****Regulation (EC) No. 1272/2008****Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	0.03 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	



## Safety Data Sheet

STABILO International GmbH

"11/133"

Revision date: 10/27/2020

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**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Non-flammable.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Disposal: see section 13



## Safety Data Sheet

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Revision date: 10/27/2020

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**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Follow the instructions for use on the label.

storage temperature of °C 10 up to °C 40.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.



## Safety Data Sheet

STABILO International GmbH

"11/133"

Revision date: 10/27/2020

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	"Cloudy Blue"
pH-Value:	6,5 - 8

**Changes in the physical state**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure:	not determined
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Density (at 20 °C):	not determined
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Water solubility:	easily soluble
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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:	not determined
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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**Other information**

Solid content:	not determined
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**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.



## Safety Data Sheet

"11/133"

Revision date: 10/27/2020

Page 5 of 7

**Conditions to avoid**

none/none

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one				
	oral	LD50 mg/kg	670	Rat	Study report (1988) OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1994) OECD Guideline 402
	inhalation vapour	ATE	0,5 mg/l		
	inhalation aerosol	ATE	0,05 mg/l		

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to Directive 1999/45/EC.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.





## Safety Data Sheet

STABILO International GmbH

"11/133"

Revision date: 10/27/2020

Page 6 of 7

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

No dangerous good in sense of this transport regulation.

**UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**Packing group:**

No dangerous good in sense of this transport regulation.

**Special precautions for user**

No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

Observe in addition any national regulations!

**16. Other information**

Revision date: 10/27/2020

Revision No: 1,0

**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate



## Safety Data Sheet

STABILO International GmbH

"11/133"

Revision date: 10/27/2020

Page 7 of 7

LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road )  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern  
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H statements (full text)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*