



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

81751-XXXX

STS 11583 BP black

Version number: Version 8.0
Replaces version of: 2017-11-16 (Version 7)

Date of compilation: 2018-04-04

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name **STS 11583 BP black**
Registration number (REACH) not relevant (mixture)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or the mixture: writing fluid
ball point pen ink
Uses advised against: At present no such uses are identified

1.3 Details of the supplier of the safety data sheet

STS Schreibgerätetechnik Schwarzwald GmbH & Co. KG
Am Tannwald 1
D-78112 St. Georgen
Germany

Telephone: +49 (7725) 91659-0:
Telefax: +49 (7725) 91659-10
e-Mail: Info@STS-inks.de
e-mail (competent person)

This number is only available during the following of-
fice hours:
Mon-Fri 08:00 - 17:00:
Klaus.Frick@sts-inks.de

1.4 Emergency telephone number

Emergency information service

Poison centre		
Country	Name	Telephone
Germany	Vergiftungs-Informations-Zentrale (24h)	+49-761-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat-egory	Hazard class and category	Hazard state-ment
3.2	skin corrosion/irritation	Cat. 2	(Skin Irrit, 2)	H315
3.3	serious eye damage/eye irritation	Cat. 1	(Eye Dam, 1)	H318
3.4S	skin sensitisation	Cat. 1	(Skin Sens, 1)	H317
3.8R	specific target organ toxicity - single exposure (respiratory tract ir-ritation)	Cat. 3	(STOT SE 3)	H335
4.1A	hazardous to the aquatic environment - acute hazard	Cat. 1	(Aquatic Acute 1)	H400
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 1	(Aquatic Chronic 1)	H410

Remarks

For full text of H-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.



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2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word

Danger

Pictograms

GHS05, GHS07,
GHS09



Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Precautionary statements - prevention

P264 Wash exposed parts of skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.

Precautionary statements - response

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330 IF SWALLOWED: Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary statements - disposal

P501 Dispose of contents/container to recovery or disposal facilities.

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture:

Ballpoint pen ink.

Hazardous ingredients acc. to EU regulation					
Name of sub-stance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms	M-Factors
Solvent Black 46 II	CAS No 65113-55-5 149315-87-7 65294-17-9 EC No 265-449-9	20 – 26	Eye Dam. 1 / H318 Skin Sens. 1 / H317 STOT SE 3 / H335 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		M-factor (acute) = 100,0



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Hazardous ingredients acc. to EU regulation					
Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms	M-Factors
2-phenoxyethanol	CAS No 122-99-6 EC No 204-589-7	20 – 25	Acute Tox. 4 / H302 Eye Irrit. 2 / H319		
benzyl alcohol	CAS No 100-51-6 EC No 202-859-9	10 – 15	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Irrit. 2 / H319		
Isotridecanol Polyethoxylate		1 – 5	Acute Tox. 4 / H302 Eye Dam. 1 / H318	 	
Phosphoric acid, 2-ethylhexyl ester	CAS No 12645-31-7 EC No 235-741-0	1 – 5	Skin Corr. 1B / H314		
1,1',1''-nitritotriprop-2-ol	CAS No 122-20-3 EC No 204-528-4	1 – 5	Eye Irrit. 2 / H319 Aquatic Chronic 3 / H412		

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none



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SECTION 5: Firefighting measures

- 5.1 Extinguishing media**
Suitable extinguishing media
 water spray, BC-powder, carbon dioxide (CO₂)
Unsuitable extinguishing media
 water jet
- 5.2 Special hazards arising from the substance or mixture**
Hazardous combustion products
 nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)
- 5.3 Advice for firefighters**
 In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
For non-emergency personnel
 Remove persons to safety.
For emergency responders
 Wear breathing apparatus if exposed to vapours/dust/spray/gases.
- 6.2 Environmental precautions**
 Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.
- 6.3 Methods and material for containment and cleaning up**
Advices on how to contain a spill
 Covering of drains.
Advices on how to clean up a spill
 Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).
Appropriate containment techniques
 Use of adsorbent materials.
Other information relating to spills and releases
 Place in appropriate containers for disposal. Ventilate affected area.
- 6.4 Reference to other sections**
 Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**
Recommendations
• Measures to prevent fire as well as aerosol and dust generation
 Use local and general ventilation. Use only in well-ventilated areas.
Advice on general occupational hygiene
 Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.



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7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

• Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
DE	benzyl alcohol	100-51-6	AGW	5	22	10	44	TRGS 900
DE	benzyl alcohol	100-51-6	MAK	5	22	10	44	DFG
DE	2-phenoxyethanol	122-99-6	AGW	20	110	40	220	TRGS 900
DE	2-phenoxyethanol	122-99-6	MAK	1	5.7	1	5.7	DFG

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	DNEL	3.48 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	DNEL	4.88 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2-phenoxyethanol	122-99-6	DNEL	8.07 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-phenoxyethanol	122-99-6	DNEL	34.72 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
2-phenoxyethanol	122-99-6	DNEL	8.07 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
benzyl alcohol	100-51-6	DNEL	40 mg/kg	human, dermal	worker (industry)	acute - systemic effects



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Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
benzyl alcohol	100-51-6	DNEL	110 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
benzyl alcohol	100-51-6	DNEL	8 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
benzyl alcohol	100-51-6	DNEL	22 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	DNEL	10,42 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	DNEL	36,73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1,1',1''-nitritotripropan-2-ol	122-20-3	DNEL	50 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
1,1',1''-nitritotripropan-2-ol	122-20-3	DNEL	86 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

• relevant PNECs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	PNEC	0,0053 µg/l	aquatic organisms	freshwater	short-term (single instance)
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	PNEC	0,00053 µg/l	aquatic organisms	marine water	short-term (single instance)
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	PNEC	0,03 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	PNEC	0,003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	PNEC	0,00479 mg/kg	terrestrial organisms	soil	short-term (single instance)
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	PNEC	0,053 µg/l	aquatic organisms	water	intermittent release



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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environ-mental com-partment	Exposure time
2-phenoxyethanol	122-99-6	PNEC	0,943 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	0.0943 mg/l	aquatic organisms	marine water	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	24,8 mg/l	aquatic organisms	sewage treat-ment plant (STP)	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	7,237 mg/kg	aquatic organisms	freshwater sedi-ment	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	0.7237 mg/kg	aquatic organisms	marine sedi-ment	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	1,26 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	3,44 mg/l	aquatic organisms	water	intermittent release
benzyl alcohol	100-51-6	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	0,1 mg/l	aquatic organisms	marine water	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	5,27 mg/kg	aquatic organisms	freshwater sedi-ment	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	0,527 mg/kg	aquatic organisms	marine sedi-ment	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	0,456 mg/kg	terrestrial organisms	soil	short-term (single instance)
benzyl alcohol	100-51-6	PNEC	2,3 mg/l	aquatic organisms	water	intermittent release
benzyl alcohol	100-51-6	PNEC	39 mg/l	aquatic organisms	sewage treat-ment plant (STP)	short-term (single instance)
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	PNEC	0,049 mg/l	aquatic organisms	freshwater	short-term (single instance)
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	PNEC	0,0015 mg/l	aquatic organisms	marine water	short-term (single instance)
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	PNEC	15 mg/l	aquatic organisms	sewage treat-ment plant (STP)	short-term (single instance)
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	PNEC	0,35 mg/kg	aquatic organisms	marine sedi-ment	short-term (single instance)
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	PNEC	0,49 mg/l	aquatic organisms	water	intermittent release
1,1',1''-nitritotripropan-2-ol	122-20-3	PNEC	0,71 mg/l	aquatic organisms	freshwater	short-term (single instance)
1,1',1''-nitritotripropan-2-ol	122-20-3	PNEC	0,071 mg/l	aquatic organisms	marine water	short-term (single instance)
1,1',1''-nitritotripropan-2-ol	122-20-3	PNEC	2,26 mg/l	aquatic organisms	sewage treat-ment plant (STP)	short-term (single instance)
1,1',1''-nitritotripropan-2-ol	122-20-3	PNEC	7,88 mg/kg	aquatic organisms	freshwater sedi-ment	short-term (single instance)



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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environ-mental com-partment	Exposure time
1,1',1''-nitritotripro-pan-2-ol	122-20-3	PNEC	0,788 mg/kg	aquatic organisms	marine sedi-ment	short-term (single in-stance)
1,1',1''-nitritotripro-pan-2-ol	122-20-3	PNEC	1,16 mg/kg	terrestrial organisms	soil	short-term (single in-stance)
1,1',1''-nitritotripro-pan-2-ol	122-20-3	PNEC	7,1 mg/l	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.



Skin protection

• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.



• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	black
Odour	product specific

Other physical and chemical parameters

pH (value)	6.01 – 7.01 (25 °C)
Melting point/freezing point	not determined
Initial boiling point and boiling range	>180 °C at 1,013 mPa
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	1.13 – 1.15 g/cm ³ at 25 °C
Solubility(ies)	Miscible with ethanol at any ratio
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	not determined
Viscosity	
• dynamic viscosity	10.5 – 11.5 Pa s at 25 °C
Explosive properties	none
Oxidising properties	none
Surface tension	35 – 40 mN/m (25 °C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Physical stresses which might result in a hazardous situation and have to be avoided

high temperatures

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Acute toxicity

Shall not be classified as acutely toxic.

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
2-phenoxyethanol	122-99-6	oral	1,850 mg/kg
benzyl alcohol	100-51-6	oral	1,620 mg/kg
benzyl alcohol	100-51-6	inhalation: vapour	11 mg/l/4h
benzyl alcohol	100-51-6	inhalation: dust/mist	4,178 mg/l/4h
Isotridecanol Polyethoxylate		oral	500 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

• Specific target organ toxicity - single exposure

May cause respiratory irritation.

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 2 (obviously hazardous to water)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	EC50	0,011 mg/l	aquatic invertebrates	48 h
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	EC50	0,0034 mg/l	algae	72 h



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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	ErC50	0.0053 mg/l	algae	72 h
2-phenoxyethanol	122-99-6	LC50	344 mg/l	fish	96 h
2-phenoxyethanol	122-99-6	EC50	>500 mg/l	aquatic invertebrates	48 h
2-phenoxyethanol	122-99-6	ErC50	625 mg/l	algae	72 h
benzyl alcohol	100-51-6	LC50	770 mg/l	fish	48 h
benzyl alcohol	100-51-6	EC50	230 mg/l	aquatic invertebrates	48 h
benzyl alcohol	100-51-6	ErC50	770 mg/l	algae	72 h
Isotridecanol Polyethoxylate		LC50	>1 mg/l	orfe (Leuciscus idus)	96 h
Isotridecanol Polyethoxylate		LC50	<10 mg/l	orfe (Leuciscus idus)	96 h
Isotridecanol Polyethoxylate		EC50	>1 mg/l	aquatic invertebrates	48 h
Isotridecanol Polyethoxylate		EC50	<10 mg/l	aquatic invertebrates	48 h
Isotridecanol Polyethoxylate		EC50	>1 mg/l	aquatic plants	72 h
Isotridecanol Polyethoxylate		EC50	<10 mg/l	aquatic plants	72 h
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	LC50	260 mg/l	fish	48 h
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	ErC50	15 mg/l	algae	72 h
1,1',1''-nitriiotripropan-2-ol	122-20-3	LC50	3,158 mg/l	fish	96 h
1,1',1''-nitriiotripropan-2-ol	122-20-3	EC50	>500 mg/l	aquatic invertebrates	48 h
1,1',1''-nitriiotripropan-2-ol	122-20-3	ErC50	710 mg/l	algae	72 h

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-phenoxyethanol	122-99-6	EC50	>1,000 mg/l	microorganisms	30 min
benzyl alcohol	100-51-6	LC50	770 mg/l	fish	1 h
benzyl alcohol	100-51-6	EC50	66 mg/l	aquatic invertebrates	21 d
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	LC50	348 mg/l	fish	24 h
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	EC50	420 mg/l	microorganisms	3 h



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12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9	oxygen depletion	0 %	28 d
2-phenoxyethanol	122-99-6	DOC removal	>90 %	15 d
2-phenoxyethanol	122-99-6	oxygen depletion	90 %	28 d
2-phenoxyethanol	122-99-6	carbon dioxide generation	75 %	28 d
benzyl alcohol	100-51-6	oxygen depletion	92 – 96 %	14 d
benzyl alcohol	100-51-6	DOC removal	95 %	21 d
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	DOC removal	84 %	27 d
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	oxygen depletion	26 %	28 d
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	carbon dioxide generation	70.8 %	28 d
1,1',1''-nitriilotripropan-2-ol	122-20-3	oxygen depletion	0 %	28 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Solvent Black 46 II	65113-55-5 149315-87-7 65294-17-9		5.7 (22 °C)	
2-phenoxyethanol	122-99-6	4,5	1,2 (pH value: 5, 23 °C)	
benzyl alcohol	100-51-6		1 (20 °C)	
Phosphoric acid, 2-ethylhexyl ester	12645-31-7		0,7 (pH value: 3,5, 23 °C)	
1,1',1''-nitriilotripropan-2-ol	122-20-3	<0,57	-0,015 (23 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packageings

It is a dangerous waste; only packageings which are approved (e.g. acc. to ADR) may be used. Completely emptied packageings can be recycled. Handle contaminated packageings in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

waste code (EU): 08 01 11x waste paint and varnish containing organic solvents or other dangerous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

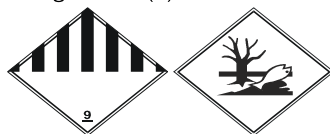
SECTION 14: Transport information

14.1	UN number	3082
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Solvent Black 46 II
	Hazardous ingredients	
14.3	Transport hazard class(es)	
	Class	9 (environmentally hazardous)
14.4	Packing group	III (substance presenting low danger)
14.5	Environmental hazards	hazardous to the aquatic environment:
14.6	Special precautions for user	
	Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	
	The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Classification code	M6
Packing group	III
Danger label(s)	9 + "fish and tree"



Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L



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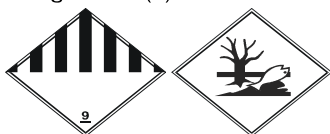
according to Regulation (EC) No. 1907/2006 (REACH)

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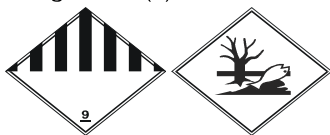
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Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
• International Maritime Dangerous Goods Code (IMDG)	
UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class	9
Marine pollutant	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9 + "fish and tree"



Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A
• International Civil Aviation Organization (ICAO-IATA/DGR)	
UN number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Class	9
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9 + "fish and tree"



Special provisions (SP)	A97, A158, A197
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

• Restrictions according to REACH, Annex XVII

Name of substance	CAS No	Type of registration	Restriction	No
Solvent Black 46 II		1907/2006/EC annex XVII	R3	3

Legend

- R3
1. Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 2. Articles not complying with paragraph 1 shall not be placed on the market.
 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:



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Legend

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,
- 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN),
- 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
 - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
- 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
- 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

• List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

• Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 35 – 44 %

• Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 3 – 7 %

• Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

• Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

• Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

National regulations (Germany)

• Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 2 (obviously hazardous to water)
(water hazard class)

• Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5,2,5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

3) A total mass flow of 0,50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

• Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK): 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)
2.1		The most important adverse physicochemical, human health and environmental effects: Spillage and fire water can cause pollution of water-courses.
2.2		Pictograms: change in the listing (table)
2.2		Hazard statements: change in the listing (table)
2.2		Precautionary statements - prevention: change in the listing (table)
2.2		Precautionary statements - response: change in the listing (table)
3.2		Hazardous ingredients acc. to EU regulation: change in the listing (table)
7.2		Consideration of other advice
7.2		• Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)
8.1		• relevant DNELs of components of the mixture: change in the listing (table)
8.1		• relevant PNECs of components of the mixture: change in the listing (table)
11.1	Acute toxicity: Harmful if swallowed.	Acute toxicity: Shall not be classified as acutely toxic.
11.1.3.1.3	• Acute toxicity estimate (ATE)	
11.1.3.1.3		• Acute toxicity estimate (ATE): change in the listing (table)
11.1		• Acute toxicity of components of the mixture: change in the listing (table)
11.1	Respiratory or skin sensitisation: Shall not be classified as a respiratory or skin sensitiser.	Respiratory or skin sensitisation: May cause an allergic skin reaction.
11.1	Specific target organ toxicity (STOT): Shall not be classified as a specific target organ toxicant.	Specific target organ toxicity (STOT)
11.1		• Specific target organ toxicity - single exposure: May cause respiratory irritation.
11.1		• Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).
12.2		Degradability of components of the mixture: change in the listing (table)
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)
14.1	UN number: (not subject to transport regulations)	UN number: 3082



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Section	Former entry (text/value)	Actual entry (text/value)
14.2	UN proper shipping name: not relevant	UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.2		Hazardous ingredients: Solvent Black 46 II
14.3	Class: -	Class: 9 (environmentally hazardous)
14.4	Packing group: not relevant	Packing group: III (substance presenting low danger)
14.5	Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations)	Environmental hazards: hazardous to the aquatic environment:
14.6	Special precautions for user: There is no additional information.	Special precautions for user: Provisions for dangerous goods (ADR) should be complied within the premises.
14.7		Information for each of the UN Model Regulations
14.7		• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)
14.7		UN number: 3082
14.7		Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.7		Class: 9
14.7		Classification code: M6
14.7		Packing group: III
14.7		Danger label(s): 9 + "fish and tree"
14.7		Danger label(s): change in the listing (table)
14.7		Environmental hazards: yes (hazardous to the aquatic environment)
14.7		Special provisions (SP): 274, 335, 375, 601
14.7		Excepted quantities (EQ): E1
14.7		Limited quantities (LQ): 5 L
14.7		Transport category (TC): 3
14.7		Tunnel restriction code (TRC): -
14.7		Hazard identification No: 90
14.7		• International Maritime Dangerous Goods Code (IMDG)
14.7		UN number: 3082
14.7		Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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Section	Former entry (text/value)	Actual entry (text/value)
14.7		Class: 9
14.7		Marine pollutant: yes (hazardous to the aquatic environment)
14.7		Packing group: III
14.7		Danger label(s): 9 + "fish and tree"
14.7		Danger label(s): change in the listing (table)
14.7		Special provisions (SP): 274, 335, 969
14.7		Excepted quantities (EQ): E1
14.7		Limited quantities (LQ): 5 L
14.7		EmS: F-A, S-F
14.7		Stowage category: A
14.7		• International Civil Aviation Organization (ICAO-IATA/DGR)
14.7		UN number: 3082
14.7		Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
14.7		Class: 9
14.7		Environmental hazards: yes (hazardous to the aquatic environment)
14.7		Packing group: III
14.7		Danger label(s): 9 + "fish and tree"
14.7		Danger label(s): change in the listing (table)
14.7		Special provisions (SP): A97, A158, A197
14.7		Excepted quantities (EQ): E1
14.7		Limited quantities (LQ): 30 kg
15.1		• Restrictions according to REACH, Annex XVII: change in the listing (table)
15.1		• Technical instructions on air quality control (Germany): change in the listing (table)
16.2		Abbreviations and acronyms: change in the listing (table)
16.5		List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)



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16.2 Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration



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Abbr.	Descriptions of used abbreviations
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

16.3 Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

16.4 Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

16.5

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.