

81704-2024



## edding ink, contained in: edding 1880

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 20 February 2019 Revision date: 20 February 2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Trade name : edding ink, contained in: edding 1880

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Ink

### 1.3. Supplier

edding International GmbH  
Bookkoppel 7  
22926 Ahrensburg  
Germany  
T: +49 (0) 4102-808-0  
[sdb\\_info@umco.de](mailto:sdb_info@umco.de)

c/o MBCA/edding  
2100 Ponce De Leon Blvd Ph 5  
Coral Gables, FL 33134  
USA  
T: +1 (305) 851-5631

### 1.4. Emergency telephone number

Emergency number : +1 (305) 851-5631 (9AM-5PM ET)

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

Respiratory sensitization, Category 1 May cause an allergy or asthma symptoms or breathing difficulties if inhaled  
Skin sensitization, Category 1 May cause an allergic skin reaction

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

May cause an allergic skin reaction  
May cause an allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (GHS US) :

Avoid breathing vapors, mist, spray.  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves.  
[In case of inadequate ventilation] wear respiratory protection.  
If on skin: Wash with plenty of water  
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing  
If skin irritation or rash occurs: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a poison center or doctor  
Wash contaminated clothing before reuse.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Exposure to respirable dust is not anticipated due to the physical form of the product.

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**2.4. Unknown acute toxicity (GHS US)**

Not applicable

**SECTION 3 : Composition/Information on ingredients****3.1. Substances**

Not applicable

**3.2. Mixtures**

Name	Product identifier	%	GHS-US classification
Carbon Black	(CAS-No.) 1333-86-4	10 – 25	Carc. 2, H351
1,2-Benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5	< 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Ethylenediamine	(CAS-No.) 107-15-3	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

**SECTION 4: First-aid measures****4.1. Description of first aid measures**

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Wash off with soap and plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
- First-aid measures after ingestion : Rinse mouth. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

**4.2. Most important symptoms and effects (acute and delayed)**

- Symptoms/effects after inhalation : May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
- Symptoms/effects after skin contact : May cause an allergic skin reaction.
- Symptoms/effects after eye contact : May cause slight temporary irritation.
- Symptoms/effects after ingestion : May cause irritation to the digestive tract.

**4.3. Immediate medical attention and special treatment, if necessary**

Treat symptomatically.

**SECTION 5: Fire-fighting measures****5.1. Suitable (and unsuitable) extinguishing media**

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam.
- Unsuitable extinguishing media : Do not use water jet.

**5.2. Specific hazards arising from the chemical**

- Fire hazard : On combustion, forms: carbon oxides (CO and CO<sub>2</sub>).
- Explosion hazard : No direct explosion hazard.

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

- Firefighting instructions : Evacuate personnel to a safe area. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6 : Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

- Emergency procedures : No additional risk management measures required.

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### 6.1.2. For emergency responders

- Protective equipment : For further information refer to section 8 : « Exposure controls/personal protection».  
 Emergency procedures : No additional risk management measures required.

### 6.2. Environmental precautions

Do not discharge into drains or the environment.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : No special decontamination procedures needed. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Collect spillage.

### 6.4. Reference to other sections

For further information refer to section 8 : « Exposure controls/personal protection». For disposal of residues refer to section 13: "Disposal considerations".

## SECTION 7 : Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure adequate ventilation.  
 Hygiene measures : Use good personal hygiene practices. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing prior to re-use.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container closed when not in use. Store tightly closed in a dry, cool and well-ventilated place.  
 Incompatible materials : None known.

## SECTION 8 : Exposure controls/personal protection

### 8.1. Control parameters

1,2-Benzisothiazol-3(2H)-one (2634-33-5)		
Not applicable		
Carbon Black (1333-86-4)		
ACGIH	Local name	Carbon black
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable particulate matter)
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
IDLH	US IDLH (mg/m <sup>3</sup> )	1750 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (Carbon black in presence of Polycyclic aromatic hydrocarbons)
Ethylenediamine (107-15-3)		
ACGIH	Local name	Ethylenediamine
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	Remark (ACGIH)	Notations: Skin; A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
IDLH	US IDLH (ppm)	1000 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm

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**8.2. Appropriate engineering controls**

No additional information available

**8.3. Individual protection measures/Personal protective equipment****Hand protection:**

Impermeable protective gloves

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Long sleeved protective clothing

**Respiratory protection:**

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits

**SECTION 9 : Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Appearance	: Opaque.
Color	: Black
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: ≈ 100 °C (212 °F)
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

**9.2. Other information**

No additional information available

**SECTION 10 : Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

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### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. On combustion, forms: carbon oxides (CO and CO<sub>2</sub>).

## SECTION 11 : Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
 Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
 Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### 1,2-Benzisothiazol-3(2H)-one (2634-33-5)

LD50 oral rat	1020 mg/kg
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#### Carbon Black (1333-86-4)

LD50 oral rat	> 15400 mg/kg
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#### Ethylenediamine (107-15-3)

LD50 oral rat	637 mg/kg
LD50 dermal rabbit	560 mg/kg
LC50 inhalation rat (mg/l)	4916 – 9832 mg/m <sup>3</sup> (Exposure time: 8 h)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
 Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
 Respiratory or skin sensitization : May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.  
 Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
 Carcinogenicity : Not classified. (Based on available data, the classification criteria are not met)  
 Exposure to respirable dust is not anticipated due to the physical form of the product

#### Carbon Black (1333-86-4)

IARC group	2B – Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
 Specific target organ toxicity – single exposure : Not classified (Based on available data, the classification criteria are not met)  
 Specific target organ toxicity – repeated exposure : Not classified (Based on available data, the classification criteria are not met)  
 Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)  
 Viscosity, kinematic : No data available  
 Likely routes of exposure : Skin and eye contact. Ingestion. Inhalation.  
 Symptoms/effects after inhalation : May cause an allergy or asthma symptoms or breathing difficulties if inhaled.  
 Symptoms/effects after skin contact : May cause an allergic skin reaction.  
 Symptoms/effects after eye contact : May cause slight temporary irritation.  
 Symptoms/effects after ingestion : May cause irritation to the digestive tract.

## SECTION 12 : Ecological information

### 12.1. Toxicity

Ecology – general : This material has not been tested for environmental effects.

#### Carbon Black (1333-86-4)

ErC50 (algae)	> 10000 mg/l 72 hours OECD 201
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#### Ethylenediamine (107-15-3)

LC50 fish 1	98.6 – 131.6 mg/l (Exposure time: 96 h – Species: Pimephales promelas [static])
EC50 Daphnia 1	17 mg/l (Exposure time: 48 h – Species: Daphnia magna)

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LC50 fish 2	191 – 254 mg/l (Exposure time: 96 h – Species: Pimephales promelas [flow-through])
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**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
Log Pow	1.3 (at 25 °C)
<b>Ethylenediamine (107-15-3)</b>	
Log Pow	-1.221

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

No additional information available

**SECTION 13 : Disposal considerations****13.1. Disposal methods**

Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

**SECTION 14 : Transport information****Department of Transportation (DOT)**

In accordance with DOT

Not applicable

**Transportation of Dangerous Goods**

Not applicable

**Transport by sea**

Not applicable

**Air transport**

Not applicable

**SECTION 15 : Regulatory information****15.1. US Federal regulations**

<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Carbon Black (1333-86-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Ethylenediamine (107-15-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	5000 lb
Section 302 EPCRA Reportable Quantity (RQ)	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb

**15.2. International regulations****CANADA**

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**1,2-Benzisothiazol-3(2H)-one (2634-33-5)**

Listed on the Canadian DSL (Domestic Substances List)

**Carbon Black (1333-86-4)**

Listed on the Canadian DSL (Domestic Substances List)

**Ethylenediamine (107-15-3)**

Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations****1,2-Benzisothiazol-3(2H)-one (2634-33-5)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Carbon Black (1333-86-4)**Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on ELINCS (European List of Notified Chemical Substances)**Ethylenediamine (107-15-3)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**National regulations****1,2-Benzisothiazol-3(2H)-one (2634-33-5)**Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)**Carbon Black (1333-86-4)**Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)**Ethylenediamine (107-15-3)**Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Japanese Poisonous and Deleterious Substances Control Law  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)**15.3. US State regulations****⚠ WARNING:** This product can expose you to Carbon Black, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	State or local regulations
Carbon Black(1333-86-4)	U.S. – Maine – Chemicals of Concern

**SECTION 16 : Other information**

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Revision date : 20 February 2019  
Other information : Conforms to ASTM D-4236.

#### Full text of H-phrases:

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H351	Suspected of causing cancer

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*