

# SAFETY DATA SHEETS

According to Regulation (EU) No.1907/2006, Regulation (EU) No. 1272/2008 and their subsequent amendments and corrigenda

Version: 1.0  
Creation Date: Mar. 24, 2022  
Revision Date: Mar. 24, 2022

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

### 1.1 – Product identifier

Product name : INK for Z- Grip BP BLACK

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

- Use of the substance/mixture : Ink for writing implement
- Recommended restrictions on use : No information available
- Uses Advised Against : No information available

### 1.3 – Details of the supplier of the SDS

• Importer : ZEBRA PEN (UK) LTD  
Unit 2, Hook Rise Business Centre,  
Hook Rise South, Surbiton, Surrey KT6 7LD, UK  
TEL : 44 208 974 2202  
FAX : 44 208 974 2131  
• Manufacture : ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
TEL : +81-3-3268-1193  
FAX : +81-3-3268-1197

### 1.4 – Emergency telephone number

- Importer : +44 208 974 2202
- Manufacture : +81-3-3268-1193

This phone number is available only during office hours: 9 a.m. to half past 5 p.m.  
(Japan time)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute Tox. 4, H302  
Skin Corr. 1, H314  
Eye Dam. 1, H318  
Skin Sens. 1B, H317  
Aquatic Acute 1, H400  
Aquatic Chronic 1, H410

#### 2.1.2. Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

### 2.2. Label elements

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

Pictogram(s)



<b>Signal word</b>	Danger
<b>Hazard statement(s)</b>	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
<b>Precautionary statement(s)</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P391 Collect spillage. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Supplemental Hazard information (EU)</b>	no data available

### 2.3. Other hazards

no data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical name	Common names and synonyms	CAS number	EC number	Registration number	Classification according to Regulation (EC)No 1278/2008(CLP)	Concentration
[4-[p,p'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium m-[[p-anilinophenyl]azo]benzenesulphonate	solvent black 46	65113-55-5	265-449-9	-	Skin Sens. 1B,H317;Eye Dam. 1,H318;STOT SE 3,H335;Aquatic Acute 1,H400;Aquatic Chronic 1,H410	30%
Benzyl alcohol	Benzyl alcohol	100-51-6	202-859-9	-	Acute Tox. 4,H302;Acute Tox. 4,H332	25%
2-phenoxyethanol	2-Phenoxy Ethanol	122-99-6	204-589-7	-	Acute Tox. 4,H302;Eye Dam. 1,H318;STOT SE 3,H335	20%
[Name confidential or not available]	Keton resin	25054-06-2	607-515-5	-	Not classified.	14%
[Name confidential or not available]	Epoxy resin	24969-06-0	607-468-0	-	Not classified.	6%
2,2',2"-nitriлотriethanol	Triethanolamine	102-71-6	203-049-8	-	Not classified.	4%
Phosphoric acid, mono- and bis(2-ethylhexyl) esters	Phosphric acid ester	90506-69-7	291-933-4	-	Skin Corr. 1B,H314	1%

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General notes

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

#### Following inhalation

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

no data available

#### 4.3. Indication of any immediate medical attention and special treatment needed

no data available

---

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

#### 5.2. Special hazards arising from the substance or mixture

no data available

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

---

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### 6.2. Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

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

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### 6.4. Reference to other sections

For disposal suggestions see section 13. For exposure controls / personal protection suggestions see section 8.

---

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

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

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

#### 7.3. Specific end use(s)

Main uses of the chemical are mentioned in section 1.2. No other specific uses are stipulated.

---

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational Exposure limit values

Component	Benzyl alcohol			
CAS No.	100-51-6			
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Finland	10	45		
Germany (DFG)	5 (1)	22 (1)	10 (1)(2)	44 (1)(2)
Latvia		5		
	Remarks			
Germany (DFG)	(1) Inhalable fraction and vapour (2) 15 minutes average value			

Component	2-Phenoxy Ethanol			
CAS No.	122-99-6			
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Austria	20	110	20	110

<b>Component</b>	2-Phenoxy Ethanol			
<b>CAS No.</b>	122-99-6			
<b>Canada - Ontario</b>	25	141		
<b>Finland</b>	20	110	50 (1)	290 (1)
<b>Germany (AGS)</b>	20 (1)	110 (1)	40 (1)(2)	220 (1)(2)
<b>Germany (DFG)</b>	1 (1)	5,7 (1)	1 (1)(2)	5,7 (1)(2)
<b>Poland</b>		230		
<b>Switzerland</b>	20	110	40	220
	<b>Remarks</b>			
<b>Finland</b>	(1) 15 minutes average value			
<b>Germany (AGS)</b>	(1) Inhalable aerosol and vapour (2) 15 minutes reference period			
<b>Germany (DFG)</b>	(1) Inhalable fraction and vapour (2) 15 minutes average value			

<b>Component</b>	Triethanolamine			
<b>CAS No.</b>	102-71-6			
	<b>Limit value - Eight hours</b>		<b>Limit value - Short term</b>	
	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>
<b>Australia</b>		5		
<b>Austria</b>	0,8	5 inhalable aerosol	0,16	10 inhalable aerosol
<b>Belgium</b>		5		
<b>Canada - Ontario</b>	0,5	3,1		
<b>Canada - Québec</b>		5		
<b>Denmark</b>	0,5	3,1	1	6,2
<b>Finland</b>		5		
<b>Germany (DFG)</b>		5 (1)		10 (1)(2)
<b>Ireland</b>		5		
<b>New Zealand</b>		5		
<b>Singapore</b>		5		
<b>Spain</b>		5		
<b>Sweden</b>	0,8	5	1,6 (1)	10 (1)
<b>Switzerland</b>		5 (1)		10 (1)(2)
	<b>Remarks</b>			
<b>Germany (DFG)</b>	(1) Inhalable fraction (2) 15 minutes average value			
<b>Sweden</b>	(1) 15 minutes average value			
<b>Switzerland</b>	(1) Inhalable fraction (2) 15 minutes average value			

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### 8.2.2. Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands.

#### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

### 8.2.3. Environmental exposure controls

See section 6.2.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Liquid.

#### Odour

pure CAS 100-51-6: Faint aromatic odor; pure CAS 122-99-6: Faint aromatic odor; pure CAS 102-71-6: Slight ammoniacal odor

<b>Odour threshold</b>	pure CAS 100-51-6: 5.5 ppm
<b>pH</b>	pure CAS 65113-55-5: 7.3.;pure CAS 100-51-6: A solution in water is neutral to litmus;pure CAS 102-71-6: pH = 10.5 (0.1 N aqueous solution); strong base
<b>Melting point/freezing point</b>	pure CAS 65113-55-5: Atm. press.:1 013 hPa. Remarks:The test item shows no melting point. No liquid phase at no point but a softening phase from 180°C, and start decomposing > 200°C.;pure CAS 100-51-6: -15°C;pure CAS 122-99-6: 14°C;pure CAS 102-71-6: 21.6°C
<b>Initial boiling point and boiling range</b>	pure CAS 100-51-6: 205°C;pure CAS 122-99-6: 245°C;pure CAS 25054-06-2: 155.7°C at 760mmHg;pure CAS 102-71-6: 335.4°C
<b>Flash point</b>	pure CAS 100-51-6: 93°C c.c.;pure CAS 122-99-6: 127°C c.c.;pure CAS 25054-06-2: 46.7°C;pure CAS 102-71-6: 179°C
<b>Evaporation rate</b>	no data available
<b>Flammability</b>	pure CAS 100-51-6: Combustible.;pure CAS 122-99-6: Combustible.;pure CAS 102-71-6: Combustible. Gives off irritating or toxic fumes (or gases) in a fire.
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Vapour pressure</b>	pure CAS 100-51-6: 13.2 Pa(20°C);pure CAS 122-99-6: 0.0013 kPa(20°C);pure CAS 102-71-6: <1 Pa(25°C)
<b>Vapour density</b>	pure CAS 100-51-6: 3.7 (vs air);pure CAS 122-99-6: 4.8 (vs air);pure CAS 102-71-6: 5.14 (vs air)
<b>Relative density</b>	pure CAS 65113-55-5: 0.69. Temperature:20 °C.;pure CAS 100-51-6: 1.04;pure CAS 122-99-6: 1.1;pure CAS 24969-06-0: 1.36 g/mL at 25 °C(lit.);pure CAS 102-71-6: 1.1
<b>Solubility(ies)</b>	pure CAS 65113-55-5: In water: < 0.01 mg/L. Temperature:25 °C. Remarks:PH not mentioned in the study.;pure CAS 100-51-6: Solubility in water, g/100ml: 4 ;pure CAS 122-99-6: Solubility in water, g/100ml: 2.7 ;pure CAS 102-71-6: Solubility in water: miscible
<b>Partition coefficient n-octanol/water</b>	pure CAS 65113-55-5: log Pow = >= 5.7. Temperature:22 °C. Remarks:The log Kow is between 5.7 and the infinity since the hydrosolubility tends toward 0.;pure CAS 100-51-6: 1.1;pure CAS 122-99-6: 1.2;pure CAS 102-71-6: -2.3 (not explosive)
<b>Auto-ignition temperature</b>	pure CAS 65113-55-5: <= 370 °C. Remarks:Preliminary test.;pure CAS 100-51-6: 436°C;pure CAS 122-99-6: 500°C;pure CAS 102-71-6: 324°C
<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	pure CAS 100-51-6: dynamic viscosity (in mPa s) = 5.05. Temperature:25.0°C.;pure CAS 122-99-6: dynamic viscosity (in mPa s) = 41. Temperature:19.8°C. Remarks:Temperature in the range 19.5-20.2 °C. Viscosity independent of the shear rate.;dynamic viscosity (in mPa s) = 19. Temperature:40.5°C. Remarks:Temperature in the range 40-41 °C. Viscosity independent of the shear rate.;pure CAS 102-71-6: kinematic viscosity (in mm²/s) = 830.2. Temperature:20°C.;kinematic viscosity (in mm²/s) = 181.5. Temperature:40°C.;kinematic viscosity (in mm²/s) = 59.1. Temperature:60.0°C.
<b>Explosive properties</b>	no data available
<b>Oxidising properties</b>	no data available

## 9.2. Other information

no data available

---

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

no data available

### 10.3. Possibility of hazardous reactions

no data available

### 10.4. Conditions to avoid

no data available

### 10.5. Incompatible materials

no data available

### 10.6. Hazardous decomposition products

no data available

---

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

- Oral: pure CAS 65113-55-5: LD50 - rat (female) - > 2 000 mg/kg bw.;pure CAS 100-51-6: LD50 - rat (male) - 1.55 mL/kg bw. Remarks:Corresponding to 1620 mg/kg bw (density: 1.045 g/mL);pure CAS 122-99-6: LD50 - rat (female) - 1 840 mg/kg bw.;pure CAS 102-71-6: LD50 - rat (male/female) - 6 400 mg/kg bw.
- Inhalation: pure CAS 100-51-6: LC50 - rat (male/female) - > 4 178 mg/m³ air.;pure CAS 122-99-6: LC50 - rat (male/female) - > 1 000 mg/m³ air (nominal).;pure CAS 102-71-6: LC0 - rat (male/female) - saturated TEA atmosphere (approximately 1.8 mg/m³).
- Dermal: pure CAS 65113-55-5: LD50 - rat (male) - > 2 000 mg/kg bw.;pure CAS 100-51-6: LD50 - guinea pig - < 5 000 mg/kg

bw.;pure CAS 122-99-6: LD50 - rat (male/female) - 14 391 mg/kg bw.;pure CAS 102-71-6: LD50 - rabbit - > 2 000 mg/kg bw.

#### **Skin corrosion/irritation**

no data available

#### **Serious eye damage/irritation**

no data available

#### **Respiratory or skin sensitization**

no data available

#### **Germ cell mutagenicity**

no data available

#### **Carcinogenicity**

no data available

#### **Reproductive toxicity**

no data available

#### **STOT-single exposure**

pure CAS 100-51-6: The aerosol is irritating to the eyes and skin. The substance may cause effects on the nervous system.;pure CAS 122-99-6: The substance is irritating to the eyes, skin and respiratory tract. The substance may cause effects on the central nervous system and peripheral nervous system. This may result in impaired functions.;pure CAS 102-71-6: The substance is irritating to the eyes, skin and respiratory tract.

#### **STOT-repeated exposure**

pure CAS 100-51-6: Repeated or prolonged contact may cause skin sensitization.;pure CAS 122-99-6: The substance defats the skin, which may cause dryness or cracking. The substance may have effects on the central nervous system. This may result in impaired functions.;pure CAS 102-71-6: Repeated or prolonged contact may cause skin sensitization.

#### **Aspiration hazard**

pure CAS 100-51-6: No indication can be given about the rate at which a harmful concentration of this substance in the air is reached on evaporation at 20°C.;pure CAS 122-99-6: A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.;pure CAS 102-71-6: Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

---

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

- Toxicity to fish: pure CAS 100-51-6: LC50 - Pimephales promelas - 460 mg/L - 96 h.;pure CAS 122-99-6: LC50 - Pimephales promelas - 344 mg/L - 96 h.;pure CAS 102-71-6: LC50 - Pimephales promelas - 11 800 mg/L - 96 h.
- Toxicity to daphnia and other aquatic invertebrates: pure CAS 65113-55-5: EC50 - Daphnia magna - ca. 0.011 mg/L - 48 h.;pure CAS 100-51-6: EC50 - Daphnia magna - 230 mg/L - 48 h.;pure CAS 122-99-6: EC50 - Daphnia magna - > 500 mg/L - 48 h.;pure CAS 102-71-6: EC50 - Ceriodaphnia dubia - 609.88 mg/L - 48 h.
- Toxicity to algae: pure CAS 65113-55-5: EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - ca. 0.005 mg/L - 72 h.;pure CAS 100-51-6: EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - 770 mg/L - 72 h.;pure CAS 122-99-6: EC50 - Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) - > 500 mg/L - 72 h.;pure CAS 102-71-6: EC50 - Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) - 512 mg/L - 72 h.
- Toxicity to microorganisms: pure CAS 100-51-6: IC50 - Aerobic heterotrophs and Nitrosomonas - 2 100 mg/L - 49 h. Remarks:Respiration rate.;pure CAS 122-99-6: EC20 - activated sludge of a predominantly domestic sewage - 620 mg/L - 30 min. Remarks:Respiration rate.;pure CAS 102-71-6: IC50 - activated sludge of a predominantly domestic sewage - > 1 000 mg/L - 3 h. Remarks:Respiration rate.

### **12.2. Persistence and degradability**

no data available

### **12.3. Bioaccumulative potential**

no data available

### **12.4. Mobility in soil**

no data available

### **12.5. Results of PBT and vPvB assessment**

no data available

### **12.6. Other adverse effects**

no data available

---

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## SECTION 14: Transport information

### 14.1. UN number

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

### 14.2. UN Proper Shipping Name

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

### 14.3. Transport hazard class(es)

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

### 14.4. Packing group

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

### 14.5. Environmental hazards

ADR/RID: Yes

IMDG: Yes

IATA: Yes

### 14.6. Special precautions for user

no data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

no data available

## SECTION 15: Regulatory information

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

Chemical name		Common names and synonyms	CAS number	EC number
[4-[p,p'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium m-[[p-anilinophenyl]azo]benzenesulphonate		solvent black 46	65113-55-5	265-449-9
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>				Listed.
Chemical name	Common names and synonyms		CAS number	EC number
Benzyl alcohol	Benzyl alcohol		100-51-6	202-859-9
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>				Listed.
Chemical name	Common names and synonyms		CAS number	EC number
2-phenoxyethanol	2-Phenoxy Ethanol		122-99-6	204-589-7
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>				Listed.
Chemical name	Common names and synonyms		CAS number	EC number
[Name confidential or not available]	Keton resin		25054-06-2	607-515-5
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>				Not Listed.
Chemical name	Common names and synonyms		CAS number	EC number
[Name confidential or not available]	Epoxy resin		24969-06-0	607-468-0
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>				Not Listed.
Chemical name	Common names and synonyms		CAS number	EC number
2,2',2''-nitrioltriethanol	Triethanolamine		102-71-6	203-049-8
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>				Listed.
Chemical name	Common names and synonyms		CAS number	EC number
Phosphoric acid, mono- and bis(2-ethylhexyl) esters	Phosphric acid ester		90506-69-7	291-933-4
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>				Listed.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other information

### Indication of changes

Version 1.0

Initial issue.

### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

### Key literature references and sources for data

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

### Full text of H-Statements referred to under sections 2 and/or 3.

<b>Acute Tox. 4,H302</b>	Acute toxicity - Oral, Category 4
<b>Skin Corr. 1,H314</b>	Skin corrosion, Category 1
<b>Eye Dam. 1,H318</b>	Serious eye damage, Category 1
<b>Skin Sens. 1B,H317</b>	Skin sensitization, Sub-category 1B
<b>Aquatic Acute 1,H400</b>	Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1
<b>Aquatic Chronic 1,H410</b>	Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1
<b>H302</b>	Harmful if swallowed.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.

### Advice on any training appropriate for workers to ensure protection of human health and the environment

Provide sufficient information, guidance and training to operating personnel.

**Any questions regarding this SDS, Please send your inquiry to [sds@xixisys.com](mailto:sds@xixisys.com)**

---

*Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.*