

# Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

## 1 Identification

- **Product identifier**
- **Trade name: FerpoX 1K Epoxy Primer**
- **Product code:** 24130
- **Recommended use and restriction on use**
- **Recommended use:** Primer/ Subcoating
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
 FERTAN LLC  
 12485 S West 137th Avenue, Suite 212  
 Miami, FL 33186  
 USA  
 (305) 614-1140  
  
 contact@fertanusa.com  
 http://www.fertanusa.com
- **Emergency telephone number:**  
 ChemTel Inc.  
 (800)255-3924 (North America)  
 +1 (813)248-0585 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**

Flam. Liq. 3	H226	Flammable liquid and vapor.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
Repr. 1A	H360	May damage fertility or the unborn child.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT RE 2	H373	May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

- **Label elements**
- **GHS label elements**  
 The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS02 GHS07 GHS08

- **Signal word:** Danger
- **Hazard statements:**  
 H226 Flammable liquid and vapor.  
 H315 Causes skin irritation.

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- H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H360 May damage fertility or the unborn child.  
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
 H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

**Precautionary statements:**

- P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe mist/vapors/spray.  
 P264 Wash thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 P280 Wear protective gloves/protective clothing/eye protection.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P312 Call a poison center/doctor if you feel unwell.  
 P314 Get medical advice/attention if you feel unwell.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.  
 P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Components:**

64742-95-6	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304	10-20%
1330-20-7	Xylenes Flam. Liq. 3, H226	10-20%

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	<ul style="list-style-type: none"> <li>☠ Asp. Tox. 1, H304</li> <li>⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335-H336</li> <li>Eye Irrit. 2B, H320</li> </ul>	
100-41-4	Ethylbenzene <ul style="list-style-type: none"> <li>☠ Flam. Liq. 2, H225</li> <li>☠ Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304</li> <li>⚠ Acute Tox. 4, H332</li> <li>Eye Irrit. 2B, H320</li> </ul>	2.5-5%
96-29-7	2-butanone oxime <ul style="list-style-type: none"> <li>☠ Carc. 2, H351</li> <li>⚠ Eye Dam. 1, H318</li> <li>⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317</li> <li>Flam. Liq. 4, H227</li> </ul>	0.1-1%
136-52-7	cobalt(II) 2-ethylhexanoate <ul style="list-style-type: none"> <li>☠ Repr. 1A, H360</li> <li>⚠ Eye Irrit. 2A, H319; Skin Sens. 1A, H317</li> </ul>	0.1-1%
22464-99-9	2-ethylhexanoic acid, zirconium salt <ul style="list-style-type: none"> <li>☠ Repr. 2, H361</li> </ul>	0.1-1%
85711-55-3	fatty acids, tall oil, compds. with oleylamine <ul style="list-style-type: none"> <li>☠ STOT RE 2, H373</li> <li>⚠ Eye Dam. 1, H318</li> <li>⚠ Skin Sens. 1A, H317</li> </ul>	0.1-1%
147900-93-4	fatty acids, C18 unsatd., trimers, compds. with oleylamine <ul style="list-style-type: none"> <li>☠ STOT RE 1, H372</li> <li>⚠ Skin Sens. 1B, H317</li> </ul>	0.1-1%

· **Additional information:**

For the wording of the listed Hazard Statements, refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

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

Irritating to eyes, respiratory system and skin.

Coughing

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Dizziness

Allergic reactions

Gastric or intestinal disorders when ingested.

Disorientation

**· Danger:**

May cause sensitization by skin contact.

May cause drowsiness or dizziness.

Suspected of causing cancer.

May damage fertility or the unborn child.

May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure:

Oral, Inhalation.

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

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Contains 2-butanone oxime, fatty acids, C18 unsatd., trimers, compds. with oleylamine, cobalt(II) 2-ethylhexanoate, fatty acids, tall oil, compds. with oleylamine. May produce an allergic reaction.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

### 5 Fire-fighting measures

**· Extinguishing media****· Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**· For safety reasons unsuitable extinguishing agents:** Water stream.**· Special hazards arising from the substance or mixture**

Flammable liquid and vapor.

Formation of toxic gases is possible during heating or in case of fire.

**· Advice for firefighters****· Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**· Additional information:**

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water spray.

### 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

**· Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

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Send for recovery or disposal in suitable receptacles.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

**Handling****Precautions for safe handling:**

Avoid contact with the eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Avoid splashes or spray in enclosed areas.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable liquid and vapor.

The product forms flammable fumes when heated.

**Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

Store in a cool location.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

**Further information about storage conditions:** Keep containers tightly sealed.**Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

**Control parameters****Components with limit values that require monitoring at the workplace:****1330-20-7 Xylenes**

PEL (USA)	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm
EV (Canada)	Short-term value: 650 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
LMPE (Mexico)	Short-term value: 150 ppm Long-term value: 100 ppm

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	A4, IBE
<b>100-41-4 Ethylbenzene</b>	
PEL (USA)	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Long-term value: 87 mg/m <sup>3</sup> , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm IARC 2B
EV (Canada)	Short-term value: 540 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
LMPE (Mexico)	Long-term value: 20 ppm
<b>96-29-7 2-butanone oxime</b>	
WEEL (USA)	Long-term value: 10 ppm DSEN
<b>136-52-7 cobalt(II) 2-ethylhexanoate</b>	
TLV (USA)	Long-term value: (0.02) NIC-0.02* mg/m <sup>3</sup> as Co, *inhalable; NIC-Skin,DSEN,RSEN,(BEI)
EL (Canada)	Long-term value: 0.02 mg/m <sup>3</sup> as Co; IARC 2B
LMPE (Mexico)	Long-term value: 0.02 mg/m <sup>3</sup> A3, IBE; como Co
<b>22464-99-9 2-ethylhexanoic acid, zirconium salt</b>	
PEL (USA)	Long-term value: 5 mg/m <sup>3</sup> as Zr
REL (USA)	Long-term value: 5 mg/m <sup>3</sup> as Zr
TLV (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> As Zr
EL (Canada)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> As Zr

**Ingredients with biological limit values:**

**1330-20-7 Xylenes**

BEI (USA) 1.5 g/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: Methylhippuric acids

**100-41-4 Ethylbenzene**

BEI (USA) 0.7 g/g creatinine  
Medium: urine  
Time: end of shift at end of workweek  
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

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-  
 Medium: end-exhaled air  
 Time: not critical  
 Parameter: Ethyl benzene (semi-quantitative)

· **Exposure controls**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.  
 Keep ignition sources away - Do not smoke.  
 Protect from heat.

· **Engineering controls:** Provide adequate ventilation.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.  
 Use suitable respiratory protective device when aerosol or mist is formed.  
 NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

· **Protection of hands:**



Protective gloves

· **For the permanent contact gloves made of the following materials are suitable:** Nitrile rubber, NBR

· **Eye protection:**



Safety glasses

· **Body protection:** Solvent resistant protective clothing

· **Limitation and supervision of exposure into the environment**

No relevant information available.

· **Risk management measures** No relevant information available.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance:**

Form: Liquid  
 Color: According to product specification

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** Not determined.

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· <b>Flash point:</b>	25 °C (77 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	430 °C (806 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits</b>	
<b>Lower:</b>	1.0 Vol %
<b>Upper:</b>	7.8 Vol %
· <b>Oxidizing properties:</b>	Non-oxidizing.
· <b>Vapor pressure at 20 °C (68 °F):</b>	3.0 mm Hg (3.95 mbar)
· <b>Density:</b>	
<b>Relative density:</b>	1
<b>Vapor density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Flammable liquid and vapor.  
Reacts violently with oxidizing agents.  
Reacts with strong acids and alkali.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Toxic fumes may be released if heated above the decomposition point.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products**  
Under fire conditions only:  
Carbon monoxide and carbon dioxide  
Nitrogen oxides

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Toxic metal oxide smoke

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**11 Toxicological information**· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****1330-20-7 Xylenes**

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4h	>10.2 mg/l (rat)

**100-41-4 Ethylbenzene**

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)

**96-29-7 2-butanone oxime**

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4h	20 mg/l (rat)

· **Primary irritant effect:**

- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

· **IARC (International Agency for Research on Cancer):**

100-41-4	Ethylbenzene	2B
136-52-7	cobalt(II) 2-ethylhexanoate	2B

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable route(s) of exposure:**

Ingestion.  
Inhalation.  
Eye contact.  
Skin contact.

· **Acute effects (acute toxicity, irritation and corrosivity):**

Irritating to eyes, respiratory system and skin.  
Vapors have narcotic effect.

· **Repeated dose toxicity:** Possible risk of irreversible effects.· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.· **Carcinogenicity:** Suspected of causing cancer.

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- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure:**  
May cause respiratory irritation.  
May cause drowsiness or dizziness.
- **STOT-repeated exposure:**  
May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure:  
Oral, Inhalation.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **Other adverse effects** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- |                                       |        |
|---------------------------------------|--------|
| · <b>UN-Number</b>                    |        |
| · <b>DOT, ADR/RID/ADN, IMDG, IATA</b> | UN1263 |
| · <b>UN proper shipping name</b>      |        |
| · <b>DOT, IATA</b>                    | Paint  |
| · <b>ADR/RID/ADN, IMDG</b>            | PAINT  |
| · <b>Transport hazard class(es)</b>   |        |

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· **DOT**



· **Class** 3  
 · **Label** 3

· **ADR/RID/ADN**



· **Class** 3 (F1)  
 · **Label** 3

· **IMDG, IATA**



· **Class** 3  
 · **Label** 3

· **Packing group**

· **DOT, ADR/RID/ADN, IMDG, IATA** III

· **Environmental hazards**

· **Marine pollutant:** No

· **Special precautions for user**

Warning: Flammable liquids

· **Danger code (Kemler):**

30

· **EMS Number:**

F-E, S-E

· **Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **ADR/RID/ADN**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IMDG**

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Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each / 10 L net.

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

1330-20-7	Xylenes
100-41-4	Ethylbenzene

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed or exempt.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

100-41-4	Ethylbenzene
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· **Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**

1330-20-7	Xylenes	I
100-41-4	Ethylbenzene	D

· **IARC (International Agency for Research on Cancer):**

100-41-4	Ethylbenzene	2B
136-52-7	cobalt(II) 2-ethylhexanoate	2B

· **Canadian Domestic Substances List (DSL):**

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All ingredients listed on DSL or NDSL.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
OSHA: Occupational Safety & Health Administration  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Flam. Liq. 4: Flammable liquids – Category 4  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Carc. 2: Carcinogenicity – Category 2  
Repr. 1A: Reproductive toxicity – Category 1A  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1

#### · Sources

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
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