

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

## 1 Identification

- **Product identifier**
- **Trade name:** Bead Sealer
- **Article number:** 14-101, 14-101A, 14-101B, 14-104, 14-104A, 14-104B
- **Recommended use and restriction on use**
- **Recommended use:**  
Sealant  
Tire maintenance.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
31 Incorporated

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
- Flam. Liq. 2 H225 Highly flammable liquid and vapor.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2B H320 Causes eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Carc. 2 H351 Suspected of causing cancer.
- Repr. 2 H361 Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.
- STOT SE 3 H336 May cause drowsiness or dizziness.
- STOT RE 2 H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: 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:**  
H225 Highly flammable liquid and vapor.  
H315+H320 Causes skin and eye irritation.

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- H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H361 Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Precautionary statements:**





- 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.  
 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:**

108-88-3	toluene	50-100%
	 Flam. Liq. 2, H225  Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304  Skin Irrit. 2, H315; STOT SE 3, H336  Eye Irrit. 2B, H320	

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142-82-5	heptane ⚠ Flam. Liq. 2, H225 ⚠ Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 Eye Irrit. 2B, H320	25-50%
9006-04-6	natural rubber latex ⚠ Skin Sens. 1B, H317	<10%
1333-86-4	carbon black ⚠ Carc. 2, H351	<1%

· **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, 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:**

Headache

Coughing, dizziness, if inhaled.

Irritant to skin and mucous membranes.

Causes eye irritation.

Allergic reactions

Nausea in case of ingestion.

Gastric or intestinal disorders when ingested.

Disorientation

· **Danger:**

Vapours may cause drowsiness and dizziness.

Danger of impaired breathing.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.

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- **Indication of any immediate medical attention and special treatment needed:**  
If swallowed, gastric irrigation with added, activated carbon.  
If necessary oxygen respiration treatment.  
Later observation for pneumonia and pulmonary edema.

## 5 Fire-fighting measures

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

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
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**  
Allow to solidify. Pick up mechanically.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
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:** Use only in well ventilated areas.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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Flammable gas-air mixtures may be formed in empty containers/receptacles.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

Provide ventilation for receptacles.

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

· **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:**

**108-88-3 toluene**

PEL (USA)	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm R
EV (Canada)	Long-term value: 20 ppm
LMPE (Mexico)	Long-term value: 20 ppm A4, IBE

**142-82-5 heptane**

PEL (USA)	Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm
REL (USA)	Long-term value: 350 mg/m <sup>3</sup> , 85 ppm Ceiling limit value: 1800* mg/m <sup>3</sup> , 440* ppm *15-min
TLV (USA)	Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm
EL (Canada)	Short-term value: 500 ppm Long-term value: 400 ppm
EV (Canada)	Short-term value: 2045 mg/m <sup>3</sup> , 500 ppm Long-term value: 1635 mg/m <sup>3</sup> , 400 ppm
LMPE (Mexico)	Short-term value: 500 ppm Long-term value: 400 ppm

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**9006-04-6 natural rubber latex**

TLV (USA)	Long-term value: 0.0001* mg/m <sup>3</sup> Skin; DSEN, RSEN;* inh. fraction
EL (Canada)	Long-term value: 0.001 mg/m <sup>3</sup> inhalable, Skin; S
EV (Canada)	Long-term value: 0.001 mg/m <sup>3</sup> as total proteins, inhalable, Skin
LMPE (Mexico)	Long-term value: 0.0001* mg/m <sup>3</sup> SEN, PIEL, *fracción inhalable

**1333-86-4 carbon black**

PEL (USA)	Long-term value: 3.5 mg/m <sup>3</sup>
REL (USA)	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV (USA)	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction
EL (Canada)	Long-term value: 3 mg/m <sup>3</sup> IARC 2B
EV (Canada)	Long-term value: 3.5 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 3* mg/m <sup>3</sup> A3, *fracción inhalable

· **Ingredients with biological limit values:**

**108-88-3 toluene**

BEI (USA)	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.  
Pregnant women should strictly avoid inhalation or skin contact.  
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.

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- **Engineering controls:**

Store in a well-ventilated place.  
Do not expose to temperatures exceeding 50°C/122°F.  
Take precautionary measures against static discharge.  
Provide adequate ventilation.

- **Breathing equipment:**

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.  
For spills, respiratory protection may be advisable.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**

Follow relevant national guidelines concerning the use of protective eyewear.



Safety glasses

- **Body protection:** Protective work 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:** Black

- **Odor:** Solvent-like

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

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

- **Boiling point/Boiling range:** 99°C (210.2 °F)

- **Flash point:** -9°C (15.8 °F) (TCC D56)

- **Flammability (solid, gaseous):** Not applicable.

- **Auto-ignition temperature:** 215°C (419 °F)

- **Decomposition temperature:** Not determined.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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<ul style="list-style-type: none"> <li>· <b>Explosion limits</b></li> <li style="padding-left: 20px;">Lower: 1,1Vol %</li> <li style="padding-left: 20px;">Upper: 7,0Vol %</li> <li>· <b>Oxidizing properties:</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Vapor pressure at 20°C (68 °F):</b> 48hPa (36 mm Hg)</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Density at 20°C (68 °F):</b> 0,87g/cm<sup>3</sup> (7.26 lbs/gal)</li> <li>· <b>Relative density:</b> Not determined.</li> <li>· <b>Vapor density:</b> Not determined.</li> <li>· <b>Evaporation rate:</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Solubility in / Miscibility with Water:</b> Not miscible or difficult to mix.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Partition coefficient (n-octanol/water):</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Viscosity</b></li> <li style="padding-left: 20px;">Dynamic: Not determined.</li> <li style="padding-left: 20px;">Kinematic at 20°C (68 °F): 721mm<sup>2</sup>/s</li> <li>· <b>VOC content:</b> 75-90%</li> <li>· <b>Other information</b> No relevant information available.</li> </ul>

### 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**  
Highly flammable liquid and vapor.  
Reacts violently with oxidizing agents.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.  
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidizing agents.
- **Incompatible materials** Oxidizing agents
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

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## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 108-88-3 toluene

Oral	LD50	5,000 (rat)
Dermal	LD50	12,124 (rabbit)
Inhalative	LC50/4h	5,320 (mouse)

### 142-82-5 heptane

Oral	LD50	>5,000 (rat)
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### 1333-86-4 carbon black

Oral	LD50	10,000 (rat)
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- **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):**

1333-86-4	carbon black	2B
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- **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.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Suspected of causing cancer.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.
- **STOT-single exposure:** May cause drowsiness or dizziness.
- **STOT-repeated exposure:**  
May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** Toxic for aquatic organisms
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.

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- **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.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **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.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |                                  |
|--|----------------------------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>               | <p>UN1133</p>                    |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul> | <p>ADHESIVES</p>                 |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT</li> </ul>               |                                  |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>                           | <p>3 Flammable liquids<br/>3</p> |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>   |                                  |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>   | <p>3 (F1) Flammable liquids</p>  |





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· <b>Label</b>	3
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards</b>	Product contains environmentally hazardous substances: heptane
· <b>Marine pollutant:</b>	
 Yes	
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E,S-D
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
 Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.	
Labeling as a Marine Pollutant is only required for bulk single package shipments. Bulk packaging consists of a maximum capacity of greater than 450 L (119 gallons) for a liquid and a maximum net mass greater than 400 kg (882 pounds) for a solid. (See 171.4(c))	
· <b>ADR</b>	
 Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.	
Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to provisions relevant to marine pollutants. (See 5.2.1.8.1)	

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· **IMDG**



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

Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to provisions relevant to marine pollutants. (See 2.10.2.7)

· **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 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):**

108-88-3 | toluene

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

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

Reference to chemical component(s) listed below are based on unbound respirable particles and are not generally applicable to product as supplied.

1333-86-4 | carbon black

· **Chemicals known to cause reproductive toxicity for females:**

108-88-3 | toluene

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

None of the ingredients are listed.

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

108-88-3 | toluene

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· **Carcinogenic categories**

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

108-88-3	toluene	II
142-82-5	heptane	D

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

Reference to carbon black is based on unbound respirable particles and is not generally applicable to product as supplied.

1333-86-4	carbon black	2B
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· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

1333-86-4	carbon black	
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· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

### 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.

· **Date of preparation / last revision** October 16, 2017 / -

· **Abbreviations and acronyms:**

LDLo: Lowest Lethal Dose Observed  
 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  
 PBT: Persistent, Bio-accumulable, Toxique  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety and Health  
 OSHA: Occupational Safety & Health Administration  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1B: Skin sensitisation – Category 1B  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1

· **Sources**

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Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society

Safety Data Sheets, Individual Manufacturers