



SAFETY DATA SHEET

Version: 24-AUG-2018 Revision date: 24-AUG-2018
In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)

S1125 Adhesive - Part A and S1264 Adhesive – Part A

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name S1125 Adhesive - Part A and S1264 Adhesive – Part A
Other Means of Identification None
Product type Mixture

Recommended use and restrictions

Identified Use(s) Adhesive. Epoxy Resin: Hardener
Uses Advised Against None known.

Initial Supplier Identifier

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Languages spoken English

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

In accordance with Schedule 1 of the Hazardous Products Regulations (HPR) (WHMIS 2015)
Skin corrosion/irritation, Category 1B
Skin Sensitisation, Category 1
Eye damage, category 1
Reproductive toxicity, Category 2

Label elements

Product Name S1125 Adhesive – Part A and S1264 Adhesive – Part A
Contains: 3,3'-oxybis(ethyleneoxy) bis (propylamine), Aliphatic Polymer Diamine, Toluene

Hazard Pictogram(s)



Signal Word(s)

Danger

Hazard Statement(s)

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging the unborn child.

Precautionary Statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours/spray.
Wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Supplemental information

Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Dispose of contents in accordance with local, state or national legislation.

Other hazards

Not applicable.
Combustible.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixtures Substances in preparations / mixtures.

Chemical Name	CAS No.	Concentration (%W/W)	Common name(s), synonym(s) of the substance	Hazard classification
Aliphatic Polymer Diamine	68911-25-1	50 - 80	Fatty acids, C18-unsatd., dimers, polymers with 3,3'-[oxybis(2,1-ethanediylloxy)]bis[1-propanamine]	Skin corrosion/irritation, Category 2 Skin Sensitisation, Category 1 Eye damage, category 1
3,3'-oxybis(ethyleneoxy) bis (propylamine)	4246-51-9	≤ 10	1-Propanamine, 3,3'-[oxybis(2,1-ethanediylloxy)]bis-Diethylene Glycol Bis(3-aminopropyl) Ether DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER Diethylene glycol Di-(3-aminopropyl) ether	Skin corrosion/irritation, Category 1B Skin Sensitisation, Category 1
Toluene	108-88-3	< 0.5	1-Methylbenzene Reaction mass of butanone and n-hexane and Naphtha (petroleum), solvent-refined light Methylbenzol	Flammable Liquid, Category 2 Skin corrosion/irritation, Category 2 Aspiration hazard, Category 1 Specific target organ toxicity — single exposure, Category 3 Specific target organ toxicity — repeated exposure, Category 2 Reproductive toxicity, Category 2 Hazardous to the aquatic environment, Chronic , Category 3

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Inhalation

No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing immediately. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary. Check the vital functions. Keep cool.

Skin Contact

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

Eye Contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Obtain immediate medical attention.

Ingestion

IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging the unborn child.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No antidotes known.

IF IN EYES: Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.



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SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing media

Unsuitable extinguishing media

Special hazards arising from the substance or mixture

Advice for fire-fighters

Combustible. Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. Water spray, foam, dry powder or CO2.

Do not use water jet. Direct water jet may spread the fire.

May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen.

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit. Keep containers cool by spraying with water if exposed to fire. Evacuate if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental precautions

Methods and material for containment and cleaning up

Reference to other sections

No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Remove contaminated clothing and wash all affected areas with plenty of water.

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.

Contain spillages. Cover spills with inert absorbent material. Recover the product where possible. Ventilate the area and wash spill site after material pick-up is complete.

See Also Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Storage temperature

Storage life

Incompatible materials

Specific end use(s)

When using do not eat or drink. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Avoid all contact. Remove contaminated clothing and wash clothing before reuse.

Keep only in original packaging. Keep in a well ventilated place. Keep container closed.

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.

Stable at ambient temperatures.

Keep away from oxidising substances. Avoid contact with acids and alkalis.

See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE	CAS No.	8-hour Occupational Exposure Limits			15-minute / Ceiling limit value Occupational Exposure Limits		Note
		ppm	mg/m ³	f/cc	STEL (ppm)	STEL (mg/m ³)	
Kaolin	1332-58-7	-	2	-	-	-	-
Titanium dioxide	13463-67-7	-	10	-	-	-	-
Toluene	108-88-3	50	188	-	-	-	-

Source: Alberta - Occupational Health And Safety Code, 2018



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SUBSTANCE	CAS No.	Time Weighted Average	STEL / Ceiling limit value	Note
Kaolin	1332-58-7	2 mg/m ³	-	Respirable Dust
Titanium dioxide	13463-67-7	10 mg/m ³	-	2B
Toluene	108-88-3	20 ppm	-	R

Source: British Colombia - WorkSafe BC, OHS Guidelines, Part 5. Note: **2B** – ACGIH Carcinogen. **R** - Reproductive toxicity.

SUBSTANCE	CAS No.	8-hour Occupational Exposure Limits	15-minute Occupational Exposure Limits	Note
Kaolin	1332-58-7	2 mg/m ³	4 mg/m ³	-
Titanium dioxide	13463-67-7	10 mg/m ³	20 mg/m ³	-
Toluene	108-88-3	50 ppm	60 ppm	Sk

Source: Northwest Territories / Nunavut - OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2015 Note: **Sk** - Can be absorbed through skin.

SUBSTANCE	CAS No.	TWA EV		STEV / Ceiling limit value		Note
		ppm	mg/m ³	STEL (ppm)	STEL (mg/m ³)	
Kaolin	1332-58-7	-	5	-	-	Rd, N1
Titanium dioxide	13463-67-7	-	10	-	-	Td, N1
Toluene	108-88-3	50	188	-	-	Pc

Source: Quebec - Regulation respecting occupational health and safety, 2018. Note: N1 - **Rd** - Respirable Dust. **Pc** - Significant contribution to the overall exposure by the cutaneous route. **Td** - Total Dust. **N1** – 0% Asbestos, <1% Crystalline Silica.

Biological limit value

Not established.

Exposure controls

Appropriate engineering controls

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Take action to prevent static discharges. Keep away from fire, sparks and heated surfaces.

Personal protection equipment

Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid all contact. Avoid inhalation of vapours that may be evolved at elevated temperatures.

Eye/ face protection



Wear eye protection with side protection (EN166). Eyewash bottles should be available.

Skin protection (Hand protection/ Other)



Hand protection

Wear impervious gloves (EN374). Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Nitrile rubber (0.4 mm), Polychloroprene - CR (0.5 mm), Butyl rubber (0.7 mm).

Body protection Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Recommended: EN 14387 Type A-P2

Thermal hazards

Not applicable.

Environmental Exposure Controls

Avoid release to the environment.No special precautions are required for this product.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Grey Pastes
Odour	Pungent / Irritating odour
Odour threshold	Not available
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	151 °C [Closed cup]
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	<0.13 hPa
Vapour density	Not determined
Relative density	Not determined
Solubility(ies)	Water: Insoluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition Temperature	Not determined
Viscosity (mPa. s)	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Other information	
Density	1280 kg/m ³

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Avoid prolonged storage at elevated temperature.
Incompatible materials	Keep away from oxidising substances. Avoid contact with acids and alkalis.
Hazardous decomposition product(s)	Combustion products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity - Oral	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Aliphatic Polymer Diamine	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - LD50 > 2850 mg/kg bw/day (rat) OECD 401
Toluene	Not classified - LD50 5580 mg/kg bw/day (rat) EU Method B1
Acute toxicity - Dermal	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Aliphatic Polymer Diamine	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - LD50 > 2150 mg/kg bw/day (rat) OECD 402
Toluene	Not classified - LD50 > 2150 mg/kg bw/day (rabbit) study result 1969
Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l
Aliphatic Polymer Diamine	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Not classified - No data
Toluene	Not classified – LC50 30 mg/L Air (Analytical method) OECD 403
Skin corrosion/irritation	Mixture: Skin Corr. 1; Causes severe skin burns and eye damage.
Aliphatic Polymer Diamine	Skin Irrit. 2; Irritant. EU classification and labelling inventory
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Skin Corr. 1; Corrosive (rabbit) study result 1984
Toluene	Skin Irrit. 2; Irritant (rabbit) EU Method B4
Serious eye damage/irritation	Mixture: Eye Dam. 1; Causes serious eye damage.
Aliphatic Polymer Diamine	Eye Dam. 1; Corrosive. EU classification and labelling inventory



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3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

Respiratory or skin sensitization

Aliphatic Polymer Diamine
3,3'-oxybis (ethyleneoxy) bis (propylamine)

Toluene

Germ cell mutagenicity

Aliphatic Polymer Diamine
3,3'-oxybis (ethyleneoxy) bis (propylamine)

Toluene

Carcinogenicity

Aliphatic Polymer Diamine
3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

Reproductive toxicity

Aliphatic Polymer Diamine
3,3'-oxybis (ethyleneoxy) bis (propylamine)

Toluene

STOT - single exposure

Aliphatic Polymer Diamine
3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

STOT - repeated exposure

Aliphatic Polymer Diamine

3,3'-oxybis (ethyleneoxy) bis (propylamine)

Toluene

Aspiration hazard

Aliphatic Polymer Diamine
3,3'-oxybis (ethyleneoxy) bis (propylamine)
Toluene

Other information

Skin Corr. 1; / Eye Dam. 1; Corrosive (rabbit) study result 1984
Not classified - Conclusive but not sufficient for classification: Slightly irritant to eyes. OECD 405 (rabbit)
Mixture: Skin Sens. 1; May cause an allergic skin reaction.
Skin Sens. 1; EU classification and labelling inventory
Skin Sens. 1; Skin sensitiser
No data ECHA registration dossier
Not classified - Sensitisation (guinea pig) - Negative EU Method B6

Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data
In vitro: Negative OECD 471
In vivo: Not classified - No data
In vitro: Negative EU Method B13/14
In vivo: Negative study result 1978

Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data
Not classified - No data
Not classified - No evidence of carcinogenic effects. (rat) OECD 453

Mixture: Repr. 2; Suspected of damaging the unborn child.
Not classified - No data
Reproductive toxicity: Not classified - No effects observed (rat) OECD 422
Developmental Toxicity: Not classified - No data
Repr. 2; Suspected of damaging the unborn child.
Reproductive toxicity: Birth defects - Loss of weight study result 1997
Developmental Toxicity: Not classified - No evidence of reproductive effects.
Weight of evidence approach
Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data
Not classified - No data
STOT SE. 3; May cause drowsiness or dizziness. EU Harmonised Classification

Mixture: Based upon the available data, the classification criteria are not met.
Oral: Not classified – NOAEL (rat) 100 - 600 mg/kg bw/day OECD 422 52-62 Days
Inhalation: Not classified - No data
Dermal: Not classified - No data
Oral: Not classified - No effects observed (rat) OECD 422
Inhalation: Not classified – No data
Dermal: Not classified - No data
Oral: Not classified - No effects observed (rat) OECD 422
Inhalation: Not classified - LOAEC (rat) 600 ppm OECD 453 103 week(s)
Dermal: Not classified - No data

Mixture: Based upon the available data, the classification criteria are not met.
Not classified - No data
Not classified - Not applicable
Asp. Tox, 1; May be fatal if swallowed and enters airways. Hydrocarbon -
Viscosity 0.56 mPa · s (20°C)

None.



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SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Based upon the available data, the classification criteria are not met. Estimated LC50 (Mixture): >100 mg/l.
Aliphatic Polymer Diamine	Not classified - No data
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Short term: LC50 > 100 mg/l (Fish) 1991 Long Term: NOEC > 1 mg/l (Fish) EU Method C2
Toluene	Short term: LC50 ≥ 5.5 mg/l (Fish) 1981 Long Term: Aquatic Chronic 3 ECHA registration dossier The product is likely to persist in the environment.
Persistence and degradability	No data.
Aliphatic Polymer Diamine	Water: Poorly biodegradable. ECHA registration dossier
3,3'-oxybis (ethyleneoxy) bis (propylamine)	Water: Readily biodegradable. ECHA registration dossier
Toluene	The product has low potential for bioaccumulation.
Bioaccumulative potential	No data.
Aliphatic Polymer Diamine	BCF = 2.0 - The substance has low potential for bioaccumulation. ECHA registration dossier
3,3'-oxybis (ethyleneoxy) bis (propylamine)	BCF = 90 - The substance has low potential for bioaccumulation. ECHA registration dossier
Toluene	The product is predicted to have low mobility in soil. No data.
Mobility in soil	log Koc 1.5 (23 °C, pH 7) ECHA registration dossier
Aliphatic Polymer Diamine	The product is predicted to have high mobility in soil. ECHA registration dossier
3,3'-oxybis (ethyleneoxy) bis (propylamine)	No data for the mixture as a whole.
Toluene	No data.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB. ECHA registration dossier
Aliphatic Polymer Diamine	Not classified as PBT or vPvB. ECHA registration dossier
3,3'-oxybis (ethyleneoxy) bis (propylamine)	EU Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer: No components of the mixture are listed
Toluene	EU Regulation (EC) No 517/2014: No components of the mixture are listed
Other adverse effects	This chemical is known to leach through soil into ground water under certain conditions.
Toluene	

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of this material and its container as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance with local, state or national legislation. Recover or recycle if possible.
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SECTION 14: TRANSPORT INFORMATION

	Road/Rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
UN number	UN 1759	UN 1759	UN 1759
UN proper shipping name	CORROSIVE SOLID, N.O.S (3,3'-oxybis (ethyleneoxy) bis (propylamine))	CORROSIVE SOLID, N.O.S (3,3'-oxybis (ethyleneoxy) bis (propylamine))	CORROSIVE SOLID, N.O.S (3,3'-oxybis (ethyleneoxy) bis (propylamine))
Transport hazard class(es)	8	8	8
Hazard Identification Number	80	Not applicable	Not applicable
Classification code:	C10	Not applicable	Not applicable
Packing group	II	II	II
Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
Special precautions for user			
Special Provisions	274	274	A3
Limited Quantities	1kg	1kg	5kg (Y844)
Excepted Quantities	E1	E1	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable		
Additional Information	None known		



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SECTION 15: REGULATORY INFORMATION

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

National regulations

CEPA (Canadian Environmental Protection Act) - Priority Substances List Toluene (CAS No. 108-88-3) - PSL1
CEPA (Canadian Environmental Protection Act) - List of Toxic Substances Toluene (CAS No. 108-88-3) - Item 65
CEPA (Canadian Environmental Protection Act) - National Pollutant Release Inventory Toluene (CAS No. 108-88-3) - Threshold Category 1A
CEPA (Canadian Environmental Protection Act) - Environmental Emergency Regulations Toluene (CAS No. 108-88-3) - Part 1

EU regulations

Wassergefährdungsklasse (Germany) Water hazard class: 1 (Self classification)
Volatile Organic Compound Content (%) 0.499%

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New format has been issued, all sections have been updated to include new information. Review SDS with care.

Version: 24-AUG-2018

Date of preparation: 24-AUG-2018

Date Previous Issue: Not Applicable

References:

Existing Safety Data Sheet (SDS).
Existing ECHA registration(s) for 3,3'-oxybis(ethyleneoxy)bis(propylamine) (CAS No. 4246-51-9), Toluene (CAS No. 108-88-3).
EU Harmonised Classification(s) for Toluene (CAS No. 108-88-3).
EU classification and labelling inventory Aliphatic Polymer Diamine (CAS No. 68911-25-1).

Classification of the substance or mixture	Classification Procedure
Skin corrosion/irritation, Category 1C	Threshold Calculation
Skin Sensitisation, Category 1	Threshold Calculation
Eye damage, category 1	Threshold Calculation
Reproductive toxicity, Category 2	Threshold Calculation

LEGEND

ADR/RID ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations concerning the international railway transport of dangerous goods
BCF Bioconcentration factor (BCF)
CAS CAS: Chemical Abstracts Service
DNEL Derived No Effect Level
EC EC: European Community
EU European Union
IATA IATA: International Air Transport Association
ICAO/IATA ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG IMDG: International Maritime Dangerous Goods
LTEL Long Term Exposure Limit
NOEC No Observed Effect Concentration
OECD Organisation for Economic Cooperation and Development
PBT PBT: Persistent, Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration
STEL Short Term Exposure Limit
UN United Nations
vPvB vPvT: very Persistent and very Toxic



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Hazard classification / Classification code:

Flam. Liq. 2; Flammable Liquid, Category 2
Asp. Tox. 1; Aspiration hazard, Category 1
Skin Corr. 1A/B/C ; Skin corrosion/irritation, Category 1A/B/C
Skin Irrit. 2; Skin corrosion/irritation, Category 2
Skin Sens. 1; Skin Sensitisation, Category 1
Eye Dam. 1; Eye damage, category 1
STOT SE 3; Specific target organ toxicity — single exposure, Category 3
Repr. 2; Reproductive toxicity, Category 2
STOT RE 2; Specific target organ toxicity — repeated exposure,
Category 2
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic ,
Category 3

Hazard Statement(s)

Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes severe skin burns and eye damage.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause drowsiness or dizziness.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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