



M-1 Sealant Hardener

SECTION 1. IDENTIFICATION

Product Identifier	M-1 Sealant Hardener
Other Means of Identification	Epoxy Hardener
Product Family	Amine
Recommended Use	Mixed with another component to seal around inserts and repair cracks in concrete structures.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	The Stebbins Engineering and Manufacturing Company, 363 Eastern Boulevard, Watertown, NY, 13601, (315) 782-3000, www.stebbinseng.com
Emergency Phone No.	Chemtrec - Within North America, 1-800-424-9300, 24 hours Stebbins 24 Hour Contact-, 1-315-788-6624
SDS No.	117
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SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Classification

Acute toxicity (Oral) - Category 4; Acute toxicity (Dermal) - Category 4; Acute toxicity (Inhalation) - Category 4; Skin corrosion - Category 1C; Serious eye damage - Category 1; Respiratory sensitization - Category 1B; Skin sensitization - Category 1B; Germ cell mutagenicity - Category 2

Label Elements



Signal Word:

Danger

Hazard Statement(s):

H302 + H312 Harmful if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H360 May damage the unborn child.

H361 Suspected of damaging fertility.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P202 Do not handle until all safety precautions have been read and understood.

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P260 Do not breathe dust, fume, gas, mist, vapours or spray.
P264 Wash hands and skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection. NIOSH approved air-purifying respirator with an organic vapour cartridge
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
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.
P273 Avoid release to the environment.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

May be a health hazard in confined spaces. Hazardous to the environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Benzyl alcohol	100-51-6	30 - 60%	N/A	Aromatic alcohol
1,2-diaminocyclohexane	694-83-7	15 - 40%	N/A	Epoxy curing agent
Salicylic acid	69-72-7	3 - 7%	N/A	Salicylates

Notes

**This ingredient is a component of the complex mixture.

Concentrations are expressed in % weight/weight.

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

Contact manufacturer/supplier in case of an emergency.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. If breathing has stopped, trained personnel should begin rescue breathing. If the heart has stopped, trained personnel should start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED).

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation or a rash occurs, get medical advice or

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attention. Clean clothing, shoes and leather goods.

Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Remove contact lenses, if present and easy to do. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, continue flushing during transport to hospital.

Ingestion

If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Immediately call a Poison Centre or doctor.

First-aid Comments

If exposed or concerned, get medical advice or attention. Some of the first-aid procedures recommended here require advanced first-aid training.

Most Important Symptoms and Effects, Acute and Delayed

In sensitized people, exposure to a very small amount of product can cause symptoms including wheezing, difficult breathing, sneezing and runny or blocked nose. Can cause death. Symptoms can develop immediately following exposure or hours later. Repeated exposure will make the reaction worse. Aspiration hazard. If swallowed: may be drawn into the lungs if swallowed or vomited, causing severe lung damage. Death can result.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, skin, respiratory system, liver, kidneys, nervous system.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

Asthma, eye conditions, kidney conditions, liver conditions, respiratory conditions, skin allergies.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Use water to keep non-leaking, fire-exposed containers cool.

Small fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Large fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

Do not use water jet.

Use of heavy stream of water may spread fire.

Specific Hazards Arising from the Product

Review Section 10 (Stability and Reactivity) for additional information.

In a fire, the following hazardous materials may be generated: corrosive chemicals; very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; corrosive, flammable ammonia.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Approach fire from upwind to avoid hazardous vapours or gases. Knock down vapours or gases with water fog or fine water spray. Dike and recover contaminated water for appropriate disposal.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Emergency responders: evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Evacuate downwind locations. Do not touch damaged containers or spilled product unless

wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

Environmental Precautions

It is good practice to prevent releases into the environment. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Small spills or leaks: stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product. Large spills or leaks: dike spilled product to prevent runoff. Contain and soak up spill with absorbent that does not react with spilled product. Get expert advice before treating the spilled product with other chemicals to make it less hazardous. Store recovered product in suitable containers that are: covered, corrosion-resistant. Contact emergency services and manufacturer/supplier for advice.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Avoid breathing in this product. Avoid repeated or prolonged skin contact. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Keep containers tightly closed when not in use or empty. Do NOT eat, drink or store food in work areas. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

Conditions for Safe Storage

Store in an area that is: ventilated, cool, separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

Components CAS-No. 100-51-6 benzyl alcohol

Value type (Form of exposure): TWA

Control parameters / Permissible concentration: 10 ppm

Basis: US WEEL.

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Exhaust directly to the outside, taking any necessary precautions for environmental protection. Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear approved safety glasses.

When there is potential for eye exposure to Liquid, vapor or mist, wear safety goggles.

Skin Protection

Chemical safety goggles. A face shield may also be necessary.

Wear chemical protective clothing e.g. gloves, aprons, boots.

Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear. Suitable materials are butyl rubber, natural rubber, neoprene rubber, nitrile rubber, polyethylene, polyvinyl, alcohol, Viton®, polyvinyl chloride, cloth, and leather.

Hygiene measures wash hands before breaks and at the end of a workday. When using do not eat or drink. When using do not smoke.

Suitable materials are: butyl rubber, natural rubber, neoprene rubber, nitrile rubber.

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Respiratory Protection

In case of inadequate ventilation, wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Dark red - brown. Particle Size: Not applicable
Odour	Fishy
Odour Threshold	Not available
pH	11.5 (100% solution)
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Boiling point/Initial boiling point	>= 470 °F (243 °C)
Flash Point	>= 222 °F (106 °C) (closed cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	< 1.0 mm Hg (0.1 kPa) at 68 °F (20 °C)
Vapour Density (air = 1)	~ 5.0
Relative Density (water = 1)	~ 0.98 at 68 °F (20 °C)
Solubility	Slightly soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	>= 470 °F (243 °C)
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not applicable
Molecular Weight	Not applicable
Bulk Density	63.62 lb/ft ³ (1019.10 kg/m ³)
Surface Tension	Not available
Critical Temperature	Not available
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable. Unstable under certain conditions - see Conditions to Avoid.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use. Reacts in the presence of acidic conditions (low pH), alkaline conditions (high pH), oxidizing agents.

Conditions to Avoid

Prolonged exposure to high temperatures. Avoid long term exposure to vapours. Incompatible materials. Temperatures above 222.0 °F (105.6 °C)

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Incompatible Materials

Releases excessive heat on contact with: oxidizing agents (e.g. peroxides), strong acids (e.g. hydrochloric acid), aldehydes (e.g. acetaldehyde), alcohols (e.g. ethanol), aromatic hydrocarbons (e.g. toluene), ketones (e.g. acetone), amines (e.g. isocyanates).
Not corrosive to metals.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; skin absorption; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
1,2-diaminocyclohexane	Not available	<= 1200 mg/kg (male rat)	> 2,800 mg/kg (male rat)

LC50 (Inhalation)

Exposure may cause irritation to respiratory tract.

Acute inhalation toxicity:

Product:

Acute toxicity estimate: 5.26 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

LD50 (Oral)

Swallowing may result in burns to the throat and mouth. Aspiration hazard high.

Acute oral toxicity - Product:

Acute toxicity estimate : 3,057 mg/kg

Method: Calculation method

Acute toxicity estimate: 5.26 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

LD50 (Dermal)

Harmful absorption levels associated with prolonged skin exposure.

Acute dermal toxicity

Product:

Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Skin Corrosion/Irritation

Human experience shows moderate or severe irritation. Skin Sensitization: repeated or prolonged exposure can irritate or burn the skin.

Serious Eye Damage/Irritation

May irritate or burn the eyes. Permanent damage including blindness may result. The vapour also irritates the eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Causes severe nose and throat irritation.

Skin Absorption

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May be harmful Symptoms may include redness, rash, swelling and itching.

Ingestion

If small amounts are swallowed may cause severe irritation or burns to the mouth, throat and stomach.

Aspiration Hazard

Not known to be an aspiration hazard. May cause lung damage if aspirated based on existing animal tests and physical and chemical properties.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

If inhaled and/or swallowed: lung injury, irritation of the respiratory system. May cause respiratory tract injury. Symptoms may include shortness of breath, rapid breathing, and coughing. The ability to do some physical activities can be reduced. Following skin contact: effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above. Symptoms can include redness, rash, swelling and itching.

Respiratory and/or Skin Sensitization

Human experience shows severe asthma or asthma-like symptoms (respiratory sensitization) in rare cases following exposure at work. In sensitized people, exposure to a very small amount of product can cause symptoms including wheezing, difficult breathing, sneezing and runny or blocked nose. Can cause death. Symptoms can develop immediately following exposure or hours later. Repeated exposure will make the reaction worse. In sensitized people, contact with a very small amount of product can cause an allergic reaction. Symptoms include redness, rash, itching and swelling. This reaction can spread from the hands or arms to the face and body. Repeated exposure will make the reaction worse.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
1,2-diaminocyclohexane	Not Listed	Not Listed	Not Listed	Not Listed

Benzyl alcohol:

Species: Rat, male and female

Application Route: Oral

Exposure time: 103 weeks

Dose: 400 mg/kg

Frequency of Treatment: 5 daily

Method: OECD Test Guideline 453

Result: negative

salicylic acid:

Species: Rat, male and female

Application Route: Oral

Exposure time: 24 month(s)

Dose: 0,50,250,500,1000 mg/kg

Frequency of Treatment: 7 daily

NOAEL: 500 mg/kg bw/day

Result: negative

Remarks: Information given is based on data obtained from similar substances.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists.

IARC = International Agency for Research on Cancer.

NTP = National Toxicology Program.

OSHA = US Occupational Safety and Health Administration.

Reproductive Toxicity

Development of Offspring

May harm the unborn child.

Sexual Function and Fertility

May cause effects on sexual function and/or fertility.

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(1,2-diaminocyclohexane) effects on fertility:

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 416

GLP: yes.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Genotoxicity in vitro:

Concentration: 15 - 1500 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Concentration: 33 - 1142 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life, based on acute toxicity tests. Can cause sharp increase in pH value in aquatic environments.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
1,2-diaminocyclohexane	460 mg/L (Daphnia magna (water flea); 96-hour; static)	230 mg/L (Daphnia magna (water flea); 48-hour)	Not available	770 mg/L (Pseudokirchneriella subcapitata (algae); 72-hour; static)

Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
1,2-diaminocyclohexane	51 mg/L (Daphnia magna (water flea); 21-day; semi-static)	Not available	Not available	Not available

Persistence and Degradability

1,2-diaminocyclohexane:

Biodegradability:

Result: Readily biodegradable.

Exposure time: 17 d

Method: OECD Test Guideline 301D

benzyl alcohol:

Biodegradability:

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Inoculum: Sewage (STP effluent)
Concentration: 20 mg/l
Result: Readily biodegradable.
Biodegradation: 95 - 97 %
Exposure time: 21 d
Method: OECD Test Guideline 301A

salicylic acid:
Biodegradability:
Test Type: aerobic
Inoculum: Mixture
Concentration: 100 mg/l
Result: Readily biodegradable.
Biodegradation: 88.1 % (Biochemical oxygen demand)
Exposure time: 14 d
Method: OECD Test Guideline 301C
GLP: No information available.

Bioaccumulative Potential

Bioaccumulative potential is low. Bio-concentration factor (BCF): <100

1,2-diaminocyclohexane:
Partition coefficient: n-octanol/water:
log Pow: < -0.9 (68 °F / 20 °C)
pH: 7
Method: OECD Test Guideline 107
GLP: yes

salicylic acid:
Partition coefficient: n-octanol/water:
log Pow: 2.25 (77 °F / 25 °C)
Method: OECD Test Guideline 117.

Mobility in Soil

Benzyl alcohol:
Distribution among environmental compartments:
Koc: 5 - 15
salicylic acid:
Distribution among environmental compartments:
Koc: 35
Method: OECD Test Guideline 121
Stability in soil:
No data available.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The product should not be allowed to enter drains, water courses or the soil.

Fully polymerized material is considered toxicologically and ecologically inert and should be disposed of properly.

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	UN2735	Polyamines, liquid, corrosive, n.o.s. (organic amine)	8	II
IMO (Marine)	UN2735	Polyamines, liquid, corrosive, n.o.s. (organic amine)	8	II
IATA (Air)	UN2735	Polyamines, liquid, corrosive, n.o.s. (organic amine)	8	II
Canadian TDG	UN2735	Polyamines, liquid, corrosive, n.o.s. (organic amine)	8	II

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

ERAP Emergency Response Assistance Plan required for quantities over 3000 Kg or L (Triethylentetramine mixture)

Emergency Response Guide No. 153

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

HMIS classifications:

Health 3

Flammability 1

Physical Hazard 0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic.

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

Not specifically listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

US Federal

CERCLA:

This material does not contain any components with a CERCLA RQ.

HCS Classification

Hazardous Substance Acute Health Hazard. Sensitizing material Corrosive material

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986)

SARA Title III - Section 302:

This material does not contain any components with a section 302 EHS TPQ.

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SARA 304: Emergency release notification
This material does not contain any components with a section 304 EHS RQ.

SARA Title III - Section 311/312:
Acute Health Hazard Chronic Health Hazard.

SARA Title III - Section 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

State Regulations
California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Pennsylvania Right To Know:
Not listed.

Custom Regulatory 1

The components of this product are reported in the following inventories:

DSL: All components of this product are on the Canadian DSL

AIIC: On the inventory, or in compliance with the inventory

NZIoC: On the inventory, or in compliance with the inventory

ENCS: Not in compliance with the inventory

KECI: Not in compliance with the inventory

PICCS: Not in compliance with the inventory

IECSC: Notified. Allowed to be imported / manufactured only by the notifiers. Please contact your Huntsman sales representative for more information.

TCSI: Not in compliance with the inventory

TSCA: All substances listed as active on the TSCA inventory

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 3	Flammability - 1	Instability - 0
SDS Prepared By	B.E.R		
Phone No.	(315) 782-3000		
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Date of Last Revision	June 30, 2023		
Revision Indicators	Revision 5 Updated: . Toxicological, Ecological, and Exposure Controls/Personal Protection Information		
Key to Abbreviations	C.A.S.# SECTION 15. REGULATORY INFORMATION Additional Information; reviewed and approved ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association OSHA = US Occupational Safety and Health Administration NTP = National Toxicology Program NIOSH = National Institute for Occupational Safety and Health RTECS® = Registry of Toxic Effects of Chemical Substances		
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available		

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Disclaimer

from Canadian Centre for Occupational Health and Safety (CCOHS).

NOTE: The information contained herein is, to the best of our knowledge, accurate and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or the results to be obtained from the use thereof.

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