

SC-4250H

SECTION 1. IDENTIFICATION

Product identifier	Epoxy Hardener
Other Means of Identification	SC-4250H
Recommended Use	Epoxy Curing Agent
Restrictions on Use	Unknown
Supplier Identifier	SEALCHEM INDUSTRIES INC. 11480 4e Avenue Rivière des Prairies, Quebec Canada H1E 3A6 Web: www.sealchem.com
24-hr No.	1-613-996-6666

SECTION 2. HAZARD IDENTIFICATION

Classification	Acute toxicity Oral and Dermal Category 4 Skin Irritation Category 2 Serious eye damage/ eye irritation Category 1 Skin sensitization Category 1 Skin corrosion / irritation –Skin Corrosion Category 1 Specific Target Organ Toxicity - Repeated Exposure Category 1 Pyrophoric Liquids Category 1
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Label Elements



Signal Word

Danger

Hazard Statements

H302 + H312: Harmful if swallowed or in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H227: Combustible liquid

Precautionary statements

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing vapors, mist, or spray.
P264: Wash hands, forearms, and other exposed areas thoroughly after handling.

P270: Do not eat drink or smoke when using this product.
 P272: Contaminated work clothing must not be allowed out of the workplace.
 P280: Wear protective gloves, protective clothing, and eye protection
 P402+405+ P235: Store locked in a cool and dry location.
 P411: Store in temperatures not exceeding freezing point.
 P391: Collect Spillage
 P501: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.
Response: Handle in accordance with good industrial hygiene and safety practice.
 P308 + P313: if exposed or concerned: Get medical advice / attention.
 P310: Immediately call a poison center or doctor.
 P330: Rinse mouth.
 P302 + P352: if on skin: Wash with plenty of water
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P313 + P333 +P337: Get medical advice/attention: If skin irritation or rash occurs or If eye irritation persists

Other Hazards: Keep away from children and animals

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	% by Weight	Other Identifiers LD 50 (ORAL-RAT) (mg/kg)
Benzyl alcohol	100-51-6	18-40	2000
Cycloaliphatic amine	Not available	25-35	Not available
Tetraethyne pentamine	112-57-2	2-5	Not available
Triethylene tetramine	112-24-3	2-5	Not available
Polyamide	Not available	45-60	<2000
Notes: Not applicable			

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation:

Remove patient to fresh air. Give mouth to mouth if patient is not breathing. Seek medical attention immediately.

Skin Contact:

Flush with soap and water for a minimum of 15 minutes. Consult a physician if irritation persists or you feel unwell.

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

Ingestion:

Do not induce vomiting unless directed to do so by medical personnel. Give two glasses of water for dilution. Never give anything by mouth to an unconscious person. Immediately consult a physician

Most Important Symptoms and Effects, Acute and Delayed

If inhaled:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

If on skin:

Harmful if in contact with the skin. Causes skin irritation. Exposure may produce an allergic reaction

If in eyes:

Causes serious eye damage.

If Ingested:

Ingestion is likely to be harmful or have adverse effects

Immediate Medical Attention and Special Treatment:

Special Instructions:

If a physician or medical attention is required, have product container or label at hand.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Flammable liquid, insoluble in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Explosive in the form of vapor when exposed to heat or flame. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and irritating fumes.

Special Protective Equipment and Precautions for Fire-fighters

Use self-contained breathing apparatus and protective clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

As a general precaution, take personal precaution not to breath gas, vapors, or dusts. Do not get in eyes, on skin or clothing. Use appropriate personal protection equipment. In the event of an emergency, evacuate any unnecessary personnel. As an environmental precaution, prevent spillage to sewers, public waters, and do not penetrate ground/soil.

Methods and Materials for Containment and Clean up

For containment, ensure adequate ventilation and absorb any spill with inert liquid binding material and dispose of waste safely.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance to good industrial hygiene and safety procedures. Wear respiratory protection when handling. Avoid body contact of containers or contents unless wearing appropriate personal protective equipment. Wear respiratory protection when handling. Avoid release into the environment.

Conditions for Safe Storage

Store in cool dry and well-ventilated place. Keep stored in accordance with local, regional, national, and international regulations. Store away from incapable materials.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

All protective clothing should be appropriately clean and available to dress into before work. The engineering measures or controls and PPE recommendations are only guidelines and may not apply to every situation.

Data not available. For additional information, please consult the corresponding requirements under <http://www.ccohs.ca/topics/hazards/chemical/chemicals/>

Chemical Name	ACGIH® TLV®		OSHA PEL		AIHA® WEEL®	
	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term

Appropriate Engineering Controls

Local exhaust ventilation required. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Provide sufficient ventilation to keep vapors below permissible exposure limit. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national / local regulations are observed.

Individual Protection Measures



General Measures

Do not eat, drink or smoke during work. Avoid all contact with skin or eye. If clothing comes into contact with material, do not allow out of the workplace. Clean hands and any exposed skin thoroughly after work and before breaks.

Eye / Face Protection

Use tightly sealed goggles or safety glasses with side shields which are resistant to Chemicals.

Skin Protection

Wear chemical resistant protection gloves. Wear impervious clothing as necessary to protect against coming in contact with product.

Respiratory Protection

If insufficient ventilation, wear respiratory protection.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting Point	Not available
Initial Boiling Point / Range	Not available
Flash point	Not available
Evaporation rate	N.A. (Butyl acetate = 1) N.A. (Ethyl acetate = 1)
Flammability(solid; gas)	Not available
Lower flammable/explosive limit	Not available
Upper flammable/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.02
Solubility	Not available
Partition coefficient – n- Octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	None known
Chemical stability	Stable under recommended handling and storage conditions
Possibility of Hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Direct sunlight. Extremely high and low

	temperatures.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides when burned

SECTION 11. TOXICOLOGY INFORMATION

Likely Routes of Administration

Inhalation, skin contact, eye contact, ingestion.

Acute Toxicity

Oral: Harmful if swallowed.

Dermal: Harmful in contact with skin.

LD50 and LC50 Data

Not available

Skin Corrosion/Irritation

Causes skin irritation.

Serious Eye Damage/ Irritation

Causes serious eye damage

STOT (Specific Target Organ Toxicity) – Single Exposure Inhalation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Aspiration Hazard

Not classified based on available data.

STOT(Specific Target Organ Toxicity) – Repeated Exposure

Skin, eyes, central nervous system, respiratory system

Respiratory and/or Skin Sensitization

May irritate mucous membranes, eyes, nose, and respiratory passages. May cause asthma attack to persons with pre-existing bronchial hyper reactivity. Exposure to high concentrations may lead to bronchitis, bronchial spasm and pulmonary oedema. Effects are usually reversible. May cause C.N.S. depression with symptoms of nausea, light-headedness, drowsiness, dizziness, loss of coordination

Carcinogenicity

Unknown

Chemical Name	IARC	ACGIH [®]	NTP	OSHA

Reproductive Toxicity

Suspected of damaging fertility or the unborn child.

Germ Cell Mutagenicity

Not classified

Interactive Effects

Not classified

SECTION 12. ECOLOGICAL INFORMATION

This is not required by WHMIS

This is not required by OSHA HCS 2012

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations

SECTION 15. REGULATORY INFORMATION

Not required under Canadian Regulations.

SECTION 16. OTHER INFORMATION

Date of Preparation	November 18, 2016
Date of Last Revision	February 1, 2013
Revision Indicators	The entire MSDS was changed on November 18, 2016 to be in accordance with the WHMIS 2015, which incorporates the Globally Harmonized System of Classification and Labeling of Chemicals for Canadian Workplaces.
References	<ol style="list-style-type: none">1. CHOHS Fact Sheets September 2016 ©CCOHS 20162. Supplier's Material Safety Data Sheet(s)

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