

## SC-4000H

### SECTION 1. IDENTIFICATION

<b>Product identifier</b>	Polyamine
<b>Other Means of Identification</b>	SC-4000H
<b>Recommended Use</b>	Epoxy Curing Agent
<b>Restrictions on Use</b>	Unknown
<b>Supplier Identifier</b>	SEALCHEM INDUSTRIES INC. 11480 4e Avenue Rivière des Prairies, Quebec Canada H1E 3A6 Web: www.sealchem.com
<b>24-hr No.</b>	1-613-996-6666

### SECTION 2. HAZARD IDENTIFICATION

<b>Classification</b>	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)
Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated	1173092-74-4	80 – 100	5000

**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**

Carbon dioxide, appropriate foam, water spray, dry chemical powder.

**Unsuitable Extinguishing Media**

None known.

**Specific Hazards Arising from the Product**

Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NOx) is to be expected. Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated. Refer to section 9 for flammability properties.

**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 incompatible 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 <sup>®</sup> TLV <sup>®</sup>		OSHA PEL		AIHA <sup>®</sup> WEEL <sup>®</sup>	
	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	Amber 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)

<b>Flammability(solid; gas)</b>	Not available
<b>Lower flammable/explosive limit</b>	Not available
<b>Upper flammable/explosive limit</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	1.00
<b>Solubility</b>	Not available
<b>Partition coefficient – n- Octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	None known
<b>Chemical stability</b>	Stable under recommended handling and storage conditions
<b>Possibility of Hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Direct sunlight. Extremely high and low temperatures.
<b>Incompatible materials</b>	<p>CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.</p> <ul style="list-style-type: none"> <li>• Nitrous acid and other nitrous agents.</li> <li>• Organic acids (i.e. acetic acid, citric acid etc.)</li> <li>• Mineral acids</li> <li>• Sodium hypochlorite</li> <li>• Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.</li> </ul>
<b>Hazardous decomposition products</b>	Nitric acid, Ammonia, Nitrogen Oxides (NO <sub>x</sub> ) Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide (CO <sub>2</sub> ) Nitrosamine.

## 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 <sup>®</sup>	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

**PIN: UN 2735**

**Primary Class: 8**

**Packing Group: III**

**TDG Description: Amines, corrosive Liquid N.O.S (Cyclo Aliphatic Amines)**

## SECTION 15. REGULATORY INFORMATION

Not required under Canadian Regulations.

## SECTION 16. OTHER INFORMATION

**Date of Preparation** November 19, 2016

**Date of Last Revision** April 1, 2015

**Revision Indicators** The entire MSDS was changed on November 19, 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**

1. CHOHS Fact Sheets September 2016 ©CCOHS 2016
2. Supplier's Material Safety Data Sheet(s)

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