

SC-4400R

SECTION 1. IDENTIFICATION

Product identifier	Liquid Epoxy Resin
Other Means of Identification	SC-4400R
Recommended Use	Resin for coatings
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 Specific Target Organ Toxicity - Repeated Exposure Category 1
-----------------------	--

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.
H411: Toxic to aquatic life with long-lasting effects

Precautionary statements

Prevention:

P261: Avoid breathing vapors, mist, or spray
P264: Wash hands, forearms, and other exposed areas thoroughly after handling.
P273: Avoid release to the environment
P280: Wear protective gloves, protective clothing, and eye protection

P233: Keep container lid tightly closed after partial use or when storing.
 P402 + P235: Store 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.
 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: Not available

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	% by Weight	Other Identifiers LD 50 (ORAL-RAT) (mg/kg)
Diglycidyl ether of bisphenol A	25068-38-6	20-30	> 5000
Bisphenol-F/epichlorohydrin epoxy resin	28064-14-4	9-20	>2000
Alkylglycidyl ether	68609-97-2	1-3	>19000
Nonyl-phenol	25154-52-3	6-10	1300
Polypropylene glycol diglycidyl ether	68609-97-2	9-20	788

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. Call a physician.

Skin Contact:

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

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:

Causes skin irritation. Exposure may produce an allergic reaction

If in eyes:

Causes serious eye irritation

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

Incomplete combustion can form Carbon Oxides and low molecular weight hydrocarbons, phenol and water. 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® 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	Off white liquid
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting Point	Not available
Initial Boiling Point / Range	>120
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	0.05
Vapor density	Not available

Relative density	1.22
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 can occur.
Conditions to avoid	Direct sunlight. Extremely high and low temperatures.
Incompatible materials	Strong mineral acids, strong bases, strong oxidizers, amines.
Hazardous decomposition products	Will react with aliphatic amines. Carbon oxides. Uncontrolled exothermic reactions of epoxy resins release phenolic carbon monoxide and water.

SECTION 11. TOXICOLOGY INFORMATION

Likely Routes of Administration				
Inhalation, skin contact, eye contact, ingestion.				
Acute Toxicity				
Not classified				
LD50 and LC50 Data				
Not available				
Skin Corrosion/Irritation				
Causes skin irritation. May cause an allergic skin reaction. Repeated skin contact may cause dermatitis, skin rash or itchiness.				
Serious Eye Damage/ Irritation				
Causes serious eye irritation				
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				
Not classified based on available data				
Respiratory and/or Skin Sensitization				
May cause an allergic skin reaction.				
Carcinogenicity				
Unknown				
Chemical Name	IARC	ACGIH®	NTP	OSHA



Safety Data Sheet

Reproductive Toxicity

Not classified

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 19, 2016**Date of Last Revision** June 1, 2014**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)

Notice: The facts stated and the recommendations made with respect to the use of this product are based on liable information. No guarantee of accuracy is made. Before using, determine the suitability of the product's intended use. The purchaser assumes all risks and liability for losses, damage, or expenses, directly or indirectly, arising from the handling or use of the product or from any other cause. All recommendations are made on condition that Sealchem will not be liable for any damages resulting from its use since Sealchem cannot control the conditions under which the product will be transported, stored, handled or used by the purchaser.