

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 20 Minute Epoxy Resin-EZ
Part Number: EZ-(all sizes)
Relevant Use: Laboratory Chemicals
Manufacturer: Sturbridge Metallurgical Services Inc.
City, State, Zip: Sturbridge MA 01566
Phone Number: 508-347-5288
Emergency Phone: **CHEMTREC 1-800-424-9300**

Section 2: Hazard(s) Identification

Hazardous classification of the substance or mixture:

Hazard Class	Category code
Skin corrosion / Irritation	2
Serious eye Damage / Eye Irritation	2A
Skin Sensitization	1
Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation)	3

Pictogram:



Signal word: Warning

Hazard Statements:

H315-Causes skin irritation.
H319-Causes serious eye irritation.
H317-May cause and allergic skin reaction.
H335-May cause respiratory irritation.

Precautionary Statements:

P261-Avoid breathing dust / fume / gas / mist/ vapours / spray.
P272-Contaminated work clothing should not be allowed out of the workplace
P264- Wash skin thoroughly after handling.
P280- Wear protective gloves/ protective clothing/ eye protection/ face protection.
P271-Use only outdoors or in a well ventilated area

Response Statements:

P302+P352-If on skin wash with plenty water
P332+P313- If skin irritation occurs: Get medical advice/attention
P362+P364-Take of contaminated clothing and wash it before re-use
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313-If eye irritation persists: Get medical advice/attention.
P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312-Call a POISON CENTER / doctor / if you feel unwell

Storage Statement:

P405-Store locked up
P403+P233-Store in a well ventilated place. Keep container tightly closed.

Disposal statement:

P501-Dispose of contents in accordance with local, state, federal and international regulations.

Other hazards: None

HMIS Ratings:

Health: 2
Flammability: 1
Reactivity: 0

Section 3: Composition/Information on Ingredients

Chemical Name	CAS No.	% Concentration
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4: First-Aid Measures

First-aid measures general

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

First-aid measures after inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

First-aid measures after skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

First-aid measures after eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

First-aid measures after ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire-Fighting Measures

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further Information

Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8: Exposure Controls/Personal Protection Exposure Limits

Occupational exposure limits

None

Personal protective equipment

Eye/face protection- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Body Protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Control of environmental exposure

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9: Physical and Chemical Properties

Physical state: Viscous Liquid

Appearance: Form: liquid, clear

Color: Clear

Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting Point /Freezing Point: No data available

Boiling Point: 260°C (500°F)

Flash Point: Pensky-Martens Closed Cup: 251 °C (483.80 °F) (ASTM D 93)

Relative evaporation rate: No data available

Flammability (solid, gas): No data available

Explosion limits: No data available

Explosive properties No data available

Oxidizing properties No data available

Vapor pressure: 0.03 mbar @ 77 °C (170.60 °F)

Vapor density: no data available

Relative density: 1.17

Water Solubility: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Other: No data available

Section 10: Stability and Reactivity

Reactivity: Stable under normal conditions

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Extremes of temperature and direct sunlight.

Incompatibilities: aliphatic amines, strong oxidizing agents, strong acids,

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Other hazards: Reacts with considerable heat release with some curing agents.

Section 11: Toxicological Information:

Acute Toxicity

Product/Ingredient	Result	Species	Dose	Exposure
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	LD50 Oral	Rat	11,400 mg/kg	-
	LD50 Dermal	Rat	2,000 mg/kg	-

Conclusion Summary: Not available

Irritation / Corrosion

Product/Ingredient	Result	Species	Score	Exposure	Observation
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Skin Erythema/Eschar 404	Rabbit	1.5 - 2		-
	Acute Dermal Irritation/Corrosion				
	Skin Edema 404	Rabbit	1.0 – 1.5		-
	Acute Dermal Irritation Corrosion				
	Eyes 405	Rabbit	0		-
	Acute Eye Irritation / Corrosion				
	Eyes Redness of the conjunctivae	Rabbit	0.7		-
	Skin moderate irritant	Rabbit		24 hrs.	-
	Skin Severe irritant	Rabbit		24 hrs.	-
	Eyes Mild irritant	Rabbit			-

Conclusion Summary: Not available

Reproductive toxicity

Product/Ingredient	Remarks
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	No adverse reproductive effects were observed in an O.E.C.D. Test Guideline no. 416 GLP two-generation rat oral gavage study conducted up to a high dose level of 750 mg/kg/day that resulted in adult body weight decrements.

Conclusion Summary: Not available

Specific target organ toxicity (single exposure)

Product/Ingredient	Category	Route of Exposure	Target Organs
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available

Potential acute health effects

Eye –Causes serious eye irritation.

Inhalation-May cause respiratory irritation.

Skin Contact-Causes skin irritation. May cause allergic skin reaction.

Ingestion-Irritating to mouth, throat, and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact- Adverse symptoms may include the following: pain or irritation, watering and redness.

Inhalation- Adverse symptoms may include the following: respiratory tract irritation and coughing.

Skin Contact- Adverse symptoms may include the following: irritation and redness

Ingestion- No specific data.

Potential chronic health effects

General- Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects-No known significant effects or critical hazards.

Section 12: Ecological Information**Toxicity-**

Product / Ingredient name	Result	Species	Exposure
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Acute LC50 1.3 mg/l - 203 Fish, Acute Toxicity Test	Fish - Fish	96h
	Acute EC50 2.1 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Aquatic invertebrates. Water flea	48h
	Acute NOEC 0.3 mg/l - 211 Daphnia Magna Reproduction Test	Aquatic invertebrates. Water flea	21d
	Acute LC50 > 11 mg/l	Aquatic plants - Algae	72h

Persistence and degradability: No data available

Bio accumulative potential:

Product / Ingredient name	LogPow	BCF	Potential
4,4'-Isopropylidenediphenol-Epichlorhydrin Copolymer	2.64-3.78	3-31 31.00	low

Mobility in soil: No data available

Other adverse effects: No known significant effects or critical hazards

Section 13: Disposal Considerations

Dispose in a safe manner in accordance with all local/national regulations. Dispose of contents/container in accordance with all federal, state, and local health and environmental regulations.

Avoid release to the environment.

Section 14: Transportation Information**Department of Transportation (DOT, United States of America)**

Non-regulated

Special precautions for user- Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

Section 15: Regulatory Information

U.S. Federal Regulations

United States - TSCA 12(b) - Chemical export notification: None required.
United States - TSCA 5(a) 2 - Final significant new use rules: Not listed
United States - TSCA 5(a) 2 - Proposed significant new use rules: Not listed
United States - TSCA 5(e) - Substances consent order: Not listed

California Prop.65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Oxirane, 2-(phenoxyethyl)-	Yes	No	5 µg/day	No.

United States inventory (TSCA 8b) – All components are listed or exempted

Canada

WHMIS (Canada) - Class D-2B: Material causing other toxic effects (Toxic)
Canadian NPRI – None required
CEPA Toxic substances-None required

International regulations

Australia inventory (AICS): All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
United States inventory (TSCA 8b): All components are listed or exempted.
Taiwan inventory (CSNN): All components are listed or exempted.

Section 16: Other Information

Disclaimer: The information above is believed to be accurate and represents the best information currently available to us. SMS, Inc. makes no warranty, express or implied, as to its accuracy, and we assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. We shall not be liable for any damages to person or property resulting from its use.