

1. CHEMICAL AND COMPANY IDENTIFICATION

Product Identifier: EPOXY TOOLING COMPOUND, RESIN COMPONENT

General Use: Formulated Epoxy Resin for mold making and casting.

Company: Douglas and Sturges, inc.
1023 Factory Street, Richmond, Ca, 94801

Phone Number: 510-235-8411

Emergency Phone: CHEMTREC 1-(800)-424-9300

2. HAZARDS IDENTIFICATION**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:**

Skin irritation – Category 2
Eye irritation – Category 2A
Skin sensitization – Category 1
Specific target organ toxicity (Single Exposure)
[Respiratory tract irritation) - Category 3

GHS LABEL ELEMENTS:**PICTOGRAM:****SIGNAL WORD:** Warning

HAZARD STATEMENTS: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

PRECAUTIONARY STATEMENTS: Wear protective gloves. Wear eye or face protection. Use only outdoors in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated clothing should not be allowed out of the workplace.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call A POISON CENTER or physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical attention.

STORAGE: Store locked up.

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

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS: None

3. COMPOSITION / INFORMATION ON INGREDIENTS**SUBSTANCE/MIXTURE:** Mixture

Ingredient Name	% by weight	CAS number
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	35-100	25068-38-6

There are no additional ingredients present that, 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

4. FIRST AID MEASURES

GENERAL INFORMATION: Get medical attention if irritation or other symptoms occur. Remove contaminated shoes and clothing before seeking medical attention.

EYE CONTACT: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SKIN CONTACT: In case of skin contact, wash thoroughly with soap and water. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific Treatment: No specific recommendations

Protection of first aid personnel: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the surrounding area.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: 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

SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIREFIGHTERS: Wear approved positive pressure, self-contained breathing apparatus (SCBA) and full body protective clothing.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Wear appropriate protective clothing, gloves and safety glasses to prevent eye and skin contact.

CONTAINMENT: Contain spill and prevent/minimize release to the environment.

METHODS FOR CLEAN UP: Scrape up or cover with an inert absorbent material and collect into an appropriate container for disposal. Clean any slippery surface using a detergent/soap solution or another biodegradable cleaner.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use.

STORAGE: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

8. EXPOSURE CONTROL / PERSONAL PROTECTION**Engineering Controls**

VENTILATION: Use with adequate ventilation

LOCAL EXHAUST: Not necessary under normal usage. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

OCCUPATIONAL EXPOSURE LIMITS: None known.

Personal Protection Equipment(PPE)

RESPIRATORY PROTECTION: No protection is ordinarily required under normal conditions of use and with adequate ventilation.

HAND PROTECTION: Handle with gloves. Wear any liquid-tight gloves such as butyl rubber, neoprene, or PVC.

EYE PROTECTION: Wear safety glasses with side shields.

PROTECTIVE CLOTHING OR EQUIPMENT: Not normally required. Provide eye bath and safety shower.

OTHER PROTECTIVE MEASURES: Observe good personal hygiene measures, such as washing after handling material, especially before eating, drinking, and smoking.

COMMENTS: Never eat, drink, or smoke in work areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous Liquid
Odor/Odor Threshold:	Mild odor
pH:	N.A. (non-aqueous)
Melting Point:	No data available
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)
Evaporation Rate:	No data available
Flammability Limits:	No data available
Flammability Limit—Upper(% by Volume):	Not applicable
Flammability Limit—Lower(% by Volume):	Not applicable
Vapor Pressure:	0.03 mbar @ 77 °C (170.60 °F)
Vapor Density:	Not applicable
Relative Density:	1.17
Solubility in Water:	Negligible
Solubility in Solvent:	No data available
Partition Coefficient: n-octanol/water:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: The product is stable.

REACTIVITY: Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTION: Under normal conditions of storage and use, hazardous reactions will not occur.

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.

INCOMPATIBLE MATERIALS: Reactive or incompatible with the following materials: aliphatic amines, strong oxidizing agents, and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: None known under normal storage and handling conditions.

OTHER HAZARDS: Reacts with considerable heat release with some curing agents.

11. TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

SKIN CONTACT: No data available.

EYE CONTACT: No data available.

INHALATION: No data available

INGESTION: No data available

ACUTE TOXICITY: No data available.

SKIN CORRISSON/IRRITATION: No data available.

SERIOUS EYE DAMAGE/ EYE IRRITATION: No data available.

RESPIRATORY/ SKIN SENSITIZATION: No data available..

GERM CELL MUTAGENICITY: No data available.

CARCINOGENICITY: No data available.

REPRODUCTIVE TOXICITY: No data available.

SPECIFIC TARGET ORGAN TOXICITY (Single or Repeated Exposure): No data available.

ASPIRATION HAZARD: No data available

CHRONIC EXPOSURE: No data available

POTENTIAL HEALTH EFFECTS - MISCELLANEOUS: No data available

12. ECOLOGICAL INFORMATION

TOXICITY: No Data.

PERSISTENCE AND DEGRADABILITY: No Data.

BIOACCUMULATIVE POTENTIAL: No Data.

MOBILITY IN SOIL: No Data.

OTHER ADVERSE EFFECTS: No Data.

13. DISPOSAL CONSIDERATONS

DISPOSAL: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue that may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

Return drums to reclamation centers for proper cleaning and reuse.

14. TRANSPORT INFORMATION

Not regulated for transport in any mode.

15. REGULATORY INFORMATION

Inventory Status: On or in compliance with the inventory for the following:

Australia (AICS):

Canada Inventory:

China Inv. Existing Chemical Substances (IECSC):

Japan (ENCS) List:

Korea Existing Chemicals Inv. (ECL):

Philippines (PICCS):

US (TSCA) Inventory:

Taiwan (CSNN):

U.S. Federal Regulatory Information

CERCLA Regulated Chemicals: Does not contain regulated chemicals

SARA Title III

Section 302 Extremely Hazardous Substance (TPQ): Does not contain regulated chemicals.

Section 311, 312 (40 CFR 370): Acute health hazard.

Section 313 Toxic Chemicals (40 CFR 372): Does not contain any chemicals above de minimus levels.

U.S. State Regulations**California proposition 65 Reproductive Toxins and Carcinogens:**

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.

16. OTHER INFORMATION

Hazardous Material Information System III (U.S.A.):

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Training Advice: Train personnel using this product in proper chemical handling, engineering controls and protective equipment.

Recommended Uses and Restrictions: This product is intended for industrial/professional use only.

SDS Revision Notes: Updated August 30, 2015

Disclaimer: This data is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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