EPOXY PUTTY

This product appears in the following stock number(s):
70345 S-70

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: EPOXY PUTTY
General use: When fully cured, the mixed product is non-hazardous.
Chemical family: Epoxy Resin & Polymercaptan Curing Agent.

MANUFACTURER

ITW Performance Polymers - Devcon
Consumer Division
2107 West Blue Heron BLVD.
Riviera Beach, FL 33404

EMERGENCY INFORMATION

Emergency telephone number
(CHEMTREC): (800) 424-9300
Other Calls: (561) 845-2425

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS CONSTITUENTS **Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
Crystalline silica		14808607	< 1	0.05 mg/m3	10/(%Q+2) mg	0.10 mg/m^3 (Canada)
Bisphenol A diglycidyl ether resin	DGEBPA	25068386	10-45	n/e	n/e	n/e
2,4,6-Tri(dimethylaminomethyl)phenol	DMP	90722	1-15	n/e	n/e	n/e
Mercaptan amine blend		*	10-40	n/e	n/e	n/e

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit."n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance, form, odor: (Color varies) putty with low odor.

WARNING! Eye and skin irritant. Potential skin sensitizer. May be harmful if swallowed.

Potential health effects

Primary routes of exposure: ☒ Skin contact ☐ Skin absorption ☒ Eye contact ☐ Inhalation ☐ Ingestion

Symptoms of acute overexposure:

Skin: May cause irritation and sensitization to sensitive skin.
Mild irritation.

Eyes:

Inhalation:
No data.

Ingestion:
No data. May cause irritation.

Effects of chronic overexposure:
Prolonged or repeated overexposure may cause allergic sensitization.

Carcinogenicity -- OSHA regulated: No **ACGIH: No** **National Toxicology Program: Yes**
International Agency for Research on Cancer: Yes
Cancer-suspect constituent(s) : silica

Medical conditions which may be aggravated by exposure:
Dermatitis and skin allergies.

Other effects:
See section 11.

4. FIRST AID MEASURES

First aid for eyes:
Flush with clear water for 15 minutes.

First aid for skin:
Wash thoroughly with soap and water. `

First aid for inhalation:
Remove to fresh air.

First aid for ingestion:
Contact a physician. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Extinguishing media:

☐ Water ☒ Carbon dioxide ☒ Dry chemical ☒ Foam ☐ Alcohol foam

Flash Point (°F): >300 **Method:** TOC

Explosive limits in air (percent) -- **Lower:** n/d **Upper:** n/d

Special firefighting procedures:
Firefighters should wear self-contained breathing apparatus and protective clothing.

Unusual fire and explosion hazards:
None.

Hazardous products of combustion:
Oxides of carbon and nitrogen. Ammonia. Other unknown, potentially toxic contaminants.

6. ACCIDENTAL RELEASE MEASURES

Spill control:
Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment:
Dike, contain and absorb with clay, sand or other suitable material.

Cleanup:

Pick up and dispose of in an appropriate container. Flush area with water to remove trace residue.

Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities.
Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles.
Handle mixed resin and hardener in accordance with the potential hazard of the curing agent used. Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and particulates (silica) during sanding/grinding operations.

Storage:

Store in a cool, dry area away from high temperatures and flames.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation :

General mechanical is satisfactory. If odor is disagreeable, use local exhuast.

Other engineering controls :

Have emergency shower and eye wash available.

Personal protective equipment

Eye and face protection:

Safety glasses

Skin protection:

Polyethylene gloves for prolonged use.

Respiratory protection:

None needed in normal use with proper ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:	1.9	**Boiling point (°F):**	n/d
Melting point (°F):	n/d	**Vapor density (air = 1):**	>1
Vapor pressure (mmHg):	Nil at 78 °F	**Evaporation rate (butyl acetate = 1):**	<1
VOC (grams/liter):	0	**Solubility in water:**	Negligible
Percent volatile by volume:	0	**pH (5% solution or slurry in water):**	n/d
Percent solids by weight:	100		

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to avoid :
Exposure to open flame or excessive heat.

Incompatible materials:
Strong oxidizing agents.

Hazardous products of decomposition:
Oxides of carbon, sulfur and nitrogen. Aldehydes and acids. Other, unknown and potentially toxic contaminants.

Conditions under which hazardous polymerization may occur:
None

11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): Not determined

Acute dermal effects: LD50 (rabbit): Not determined
Slight irritant (rabbit)

Acute inhalation effects: LC50 (rat): Not determined Exposure: hours.

Eye irritation:
Slight irritant (rabbit)

Subchronic effects:
No data available.

Carcinogenicity, teratogenicity, and mutagenicity:
1) MUTAGENICITY: Liquid resins based on diglycidyl ether of Bisphenol A (DGEBPA), have proved to be inactive when tested by in vivo mutagenicity assays. These resins have shown activity in in vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat liver cells. The significance of these tests to man is unknown. 2) CARCINOGENICITY: Recent 2-year bioassays in rats and mice exposed by the dermal route to DGEBPA yielded no evidence of carcinogenicy to the skin or any other organs. This study clarifies prior equivocal results from a 2-year mouse skin painting study, which were suggestive, but not conclusive, for weak carcinogenic activity. 3) The International Agency for Research on Cancer (IARC) concluded that DGEBPA is not classifiable as a carcinogen (IARC group 3), that is human and animal evidence of carcinogenicy is inadequate.

Other chronic effects:
Prolonged or repeated skin contact may cause sensitization, with itching, swelling, or rashes on later exposure. Studies have shown bisphenol A diglycidyl ether resin to cause allergic contact dermititis.

Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
Crystalline silica	n/d	n/d	n/d
Bisphenol A diglycidyl ether resin	11.4 g/kg	>20 ml/kg	no deaths

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
2,4,6-Tri(dimethylaminomethyl)phenol	1670 mg/kg	1400 mg/kg	> 0.5 mg/L
Mercaptan amine blend	n/d	n/d	n/d

'n/d' = 'not determined'

12 ECOLOGICAL INFORMATION

Ecotoxicity:
No data.

Mobility and persistence:
No data

Environmental fate:
No data

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Waste management recommendations:
If this resin becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261). Dispose of according to applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

Proper shipping name: Non-regulated
Technical name : N/A
Hazard class : N/A
UN number: N/A
Packing group: N/A
Emergency Response Guide no.: N/A
IMDG page number: N/A
Other: N/A

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA
All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

The following RCRA code(s) applies to this material if it becomes waste:
None

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
Crystalline silica	No	No	0.0	Not required
Bisphenol A diglycidyl ether resin	No	No	0.0	Not required
2,4,6-Tri(dimethylaminomethyl)phenol	No	No	0.0	Not required
Mercaptan amine blend	No	No	0.0	Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: - Immediate health hazard -- Delayed health hazard -

Canadian regulations

WHMIS hazard class(es) : D2A
All components of this product are on the Domestic Substances List.

16. OTHER INFORMATION

Hazardous Materials Identification System (HMIS) ratings:	Health	Flammability	Reactivity
	1*	1	0

Revisions for this issue:

MSDS section	Revisions
11	Toxicology

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