

Material Safety Data Sheet

ITW Performance Polymers - Devcon

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WHITE EPOXY PUTTY

Global Part # A05-255242

This product appears in the following stock number(s):
80345, S-80

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: WHITE EPOXY PUTTY

General use: Once cured this material is not 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

Ingredient	Abbr.	Weight Percent	ACGIH TLV:	OSHA PEL:	Other Limits
ALUMINUM OXIDE 1344-28-1	n/e	<5	10 mg/m ³ TWA (particulate)	15 mg/m ³ total dust, 5 mg/m ³ respir.	10 mg/m ³ Canada
AMINOETHYLPIPERAZINE 140-31-8	AEP	1-10	n/e	n/e	n/e
CRYSTALLINE SILICA 14808-60-7	n/e	<1	0.05 mg/m ³ TWA (respirable)	10(%Q+2) mppcf (respirable)	0.1 mg/m ³ (Canada)
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	DGEBPA	2-50	n/e	n/e	n/e
GLASS OXIDE 65997-17-3	n/e	15-30	n/e	n/e	n/e
POLYMERCAPTAN CURING AGENT MIXTURE	n/e	5-15	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 identify is a trade secret of our supplier and unknown to us.

3. HAZARDOUS IDENTIFICATION

Emergency Overview

Appearance, form, odor: Putty with little odor

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

Potential health effects

Primary Routes of Exposure: Eye, skin.

Symptoms of acute overexposure

Skin: May cause irritation and skin sensitization.

Eyes: May cause mild eye irritation.

Inhalation: None known.

Ingestion: May cause gastric distress (nausea, vomiting, diarrhea).

Effects of Chronic Exposure: Prolonged or repeated skin contact may cause sensitization, with itching, swelling or rashes on later exposure. A component in this product has shown activity by invitro microbial mutagenicity screening and produced chromosomal aberrations in cultured rat liver cells.

Ingredient	Weight Percent	NTP	ACGIH Carcinogens	IARC
ALUMINUM OXIDE 1344-28-1	<5		A4 Not classifiable as a human carcinogen	
CRYSTALLINE SILICA 14808-60-7	<1		A2 - Suspected Human Carcinogen	Group 1 Monograph 68, 1997 (inhalation of quartz)

Medical Conditions Recognized as Being Aggravated by Exposure:

Allergy, eczema, skin conditions.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash area with soap and water. If irritation persists, seek medical attention.

Inhalation: Move to fresh air; get medical attention if symptoms persist.

Ingestion: If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Recommended Extinguishing Media: Carbon dioxide, Dry chemical, foam

Flash point: >500°F.

Method: TCC

Lower Explosive

Limit: n/d

Upper Explosive

Limit: n/d

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus and protective clothing to prevent all skin and eye contact.

Unusual Fire/Explosion Hazards:

Irritating or toxic gases or fumes may be generated by thermal decomposition or combustion.

Hazardous Products of Combustion:

Oxides of carbon, Oxides of sulfur, Oxides of nitrogen, Aldehydes, Ketones

6. ACCIDENTAL RELEASE MEASURES

Spill Control: Not applicable.

Containment: N/A.

Cleanup: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Special procedures: Prevent spill from entering drainage/sewer systems, waterways and surface water.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with the skin and the eyes. Wash thoroughly after handling. Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Storage: Store in a cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation:

General ventilation is usually adequate.

Other engineering controls: Have emergency shower and eye wash available.

Personal protective equipment

Eye and face protection: Safety glasses.

Skin protection: Polyethylene gloves and apron. Do not wear rubber or cloth gloves.

Respiratory protection: With good ventilation, none required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity: 1.9

Boiling Point: n/d

Melting point: n/d

Vapor Density (Air=1): >1

Vapor Pressure: Nil @ 78°F

Evaporation Rate: <1 (butyl acetate = 1)

VOC: 0

Solubility in water: Negligible

pH (5% solution or slurry in water): 9.5

10. STABILITY AND REACTIVITY

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

Conditions to Avoid: Open flame and extreme heat.

Incompatibilities: Strong oxidizers, Acids, Strong mineral and organic bases

Hazardous Products of Combustion: Oxides of carbon, Oxides of sulfur, Oxides of nitrogen, Aldehydes, Ketones

Conditions under which hazardous polymerization may occur: None.

11. TOXICOLOGICAL INFORMATION

Eye irritation: No data available.

Subchronic effects: No data available.

Carcinogenicity, teratogenicity and mutagenicity: 1) **MUTAGENICITY:** Liquid resins based on diglycidyl ether of Bisphenol A (DGEBA), 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 DGEBA yielded no evidence of carcinogenicity 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 DGEBA is not classifiable as a carcinogen (IARC Group 3), that is human and animal evidence of carcinogenicity is inadequate.

Other chronic effects: DGEBA: 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 dermatitis.

Toxicological information on hazardous chemical constituents of this product:

Ingredient	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr (rat)
ALUMINUM OXIDE 1344-28-1	>5000 mg/kg	n/d	n/d
AMINOETHYLPIPERAZINE 140-31-8	2140 uL/kg	880 uL/kg	n/d
CRYSTALLINE SILICA 14808-60-7	n/d	n/d	n/d
BISPHENOL A/EPICHLOROXYDRIN BASED EPOXY RESIN 25068-38-6	11400 mg/kg	n/d	n/d
GLASS OXIDE 65997-17-3	n/d	n/d	n/d
POLYMERCAPTAN CURING AGENT MIXTURE	n/d	n/d	n/d

'n/d' = not determined

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12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility and persistence: No data available.

Environmental fate: No data available.

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.

US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORT INFORMATION

Proper shipping name: Not regulated

Technical name: N/A

Hazard class: N/A

UN/ID Number: N/A

Packing group: N/A

Emergency Response Guide no: N/A

IMDG page number: 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:

Ingredient	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	12B EXPORT NOTIFICATION:
ALUMINUM OXIDE 1344-28-1	No	Yes (fibrous form only)	0.0	Not required
AMINOETHYLPIPERAZINE 140-31-8	No	No	0.0	Not required
CRYSTALLINE SILICA 14808-60-7	No	No	0.0	Not required
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	No	No	0.0	Not required
GLASS OXIDE 65997-17-3	No	No	0.0	Not required
POLYMERCAPTAN CURING AGENT MIXTURE	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

California regulations: For purposes of the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65), this product does not contain any chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Canadian regulations

WHMIS Hazard Class: D2A VERY TOXIC MATERIALS D2B TOXIC MATERIALS

All components of this product are on the Domestic Substances List

16. OTHER INFORMATION

Hazardous Material Information System (HMIS) rating:

Health 1* Flammability 1 Physical Hazard 0

HMIS is a registered trademark of the National Paint and Coatings Assn.

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