MARINE TEX PUTTY STICK

This product appears in the following stock number(s):
3055C 3055U

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

MANUFACTURER
ITW Philadelphia Resins
130 Commerce Dr.
Montgomeryville, PA 18936

EMERGENCY INFORMATION
Emergency telephone number
(CHEMTREC): (800) 424-9300
Other Calls: (215) 855-8450

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS CONSTITUENTS **Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
Aminoethylpiperazine	AEP	140318	1-10	n/e	n/e	n/e
Crystalline silica		14808607	< 1	0.05 mg/m3	4/(%Q+2)ppm	0.10 mg/m^3 (Canada)
Bisphenol A diglycidyl ether resin	DGEBPA	25068386	5-20	n/e	n/e	n/e
Polymercaptan curing agent		*	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 identity is a trade secret of our supplier and unknown to us.

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance, form, odor: 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 to sensitive skin.
Mild irritation.

Eyes:

Inhalation:
No data.

Ingestion:
No data. May cause irritation, nausea, vomiting, diarrhea.

Effects of chronic overexposure:
Prolonged or repeated overexposure may cause allergic senitization (rash, itching, redness). A component in product has shown activity by in vitro microbial mutagenicity screening and produced chromosomal abberations in cultured rat liver cells.

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

Medical conditions which may be aggravated by exposure:
Allergies, skin disorders.

4. FIRST AID MEASURES

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

First aid for skin:
Remove contaminant and contaminated clothing. 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): >500 **Method:** TCC

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:
Toxic smoke and vapors may form during decomposition.

Hazardous products of combustion:
Oxides of carbon, sulfur and nitrogen. Aldehydes, ketones and other unknown organic compounds.

6. ACCIDENTAL RELEASE MEASURES

Spill control:
Not applicable.

Containment:
Not applicable.

Cleanup:

Absorb spillage on inert material and discard in suitable containers.

Special procedures:

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

7. HANDLING AND STORAGE

Handling precautions:

---Keep hands away from eyes when handling material or before washing after use. Wash thoroughly after using--particularly before eating or smoking.
---If this product is sanded or machined after curing, take appropriate precautions against inhalation of nuisance particulates. A TLV of 2 mg/m3 should be observed.

Storage:

---Store in a cool, dry place.

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):**	9.5
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. Acids. Strong mineral and organic bases.

Hazardous products of decomposition:
Oxides of carbon, sulfur and nitrogen. Aldehydes, ketones and other unknown organic compounds.

Conditions under which hazardous polymerization may occur:
None

11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): No data available.

Acute dermal effects: LD50 (rabbit): No data available.

Acute inhalation effects: LC50 (rat): No data available. Exposure: 0 hours.

Eye irritation:
Not available.

Subchronic effects:
Not 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)
Aminoethylpiperazine	2140 mg/kg	880 mg/kg	n/d
Crystalline silica	n/d	n/d	n/d

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

'n/d' = 'not determined'

12 ECOLOGICAL INFORMATION

Ecotoxicity:
Not available.

Mobility and persistence:
Not available.

Environmental fate:
Not available.

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Waste management recommendations:
Remove to a waste disposal facility operating in compliance with state and local regulations.

14. TRANSPORT INFORMATION

Proper shipping name: NR
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
Aminoethylpiperazine	No	No	0.0	Not required
Crystalline silica	No	No	0.0	Not required
Bisphenol A diglycidyl ether resin	No	No	0.0	Not required
Polymercaptan curing agent	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) : D2B; 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

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