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Material Safety Data Sheet

PRODUCT NAME: GRANICRETE CA-FD FLOOR EPOXY - PIGMENTED

PRODUCT CLASS: EPOXY RESIN

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1. COMPOSITION AND INFORMATION ON INGREDIENTS: (% w/w, unless otherwise noted)

CHEMICAL/COMMON NAME	CAS #	RANGE IN %
Reaction product of epichlorohydrin		
bisphenol A	CAS# 025085-99-8	60-80%
Alkyl glycidyl ether (C12-C14)	CAS# 068609-97-2	3-10%
Titanium Dioxide	CAS# 13463-67-7	2-30%
Proprietary Ingredients		<25%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	Not applicable
VAPOR PRESSURE:	Not applicable
VAPOR DENSITY:	Not applicable
SOLUBILITY IN WATER:	None
SPECIAL GRAVITY:	1.15
APPEARANCE:	Light Grey of Medium Viscosity
ODOR:	Mild Epoxy

3. FIRE AND EXPLOSION HAZARD DATA

Flash Point: 405°F (207.2°C)
Method Used: PMCC ASTM D-93

Flammable Limits % (Lower-Upper):
Lower: Not determined.
Upper: Not determined.

Extinguishing Media: Foam, CO₂, dry chemical

Fire and Explosion Hazards: None

Fire-Fighting Equipment: Wear positive pressure, self-contained breathing apparatus.

4. REACTIVITY DATA

STABILITY (CONDITIONS TO AVOID): Excessive heating over long periods of time degrades the resin. Freezing may cause a temporary haze to develop. Fire conditions increase viscosity and EEW.

INCOMPATIBILITY (SPECIFIC MATERIALS TO AVOID): Base acid, amines and oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Under conditions of imperfect combustion and/or pyrolysis various phenolic compounds, CO, AND/OR CO₂ may be evolved.

HAZARDOUS POLYMERIZATION: Will not occur by itself, but mass of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION

ACTION TO TAKE FOR SPILLS/LEAKS: Soak up in non-reactive absorbent material or scrape up. The residue can be removed with hot soapy water. Use of methylene chloride, acetone, or aromatic solvents in clean up poses a distinct hazard and therefore, should be avoided.

DISPOSAL METHODS: Burn in adequate incinerator or bury in approved landfill in accordance with all applicable federal, state, and local regulations.

6. HEALTH HAZARD DATA

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN CONTACT: Has caused allergic skin reactions in humans. Prolonged exposure not likely to cause significant skin irritation.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The dermal LD₅₀ has not been determined.

INGESTION: Single dose oral toxicity is low. The oral LD₅₀ for rats is >2000 mg/kg. Small amounts incidental to normal handling operations are not likely to cause injury, swallowing amounts larger than that may cause injury.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

CANCER INFORMATION: Several studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA) – based epoxy resins. In one of these, a DGEBA –based resin (containing high levels of several impurities, including a known animal carcinogen) was reported to produce a weak carcinogenic response in the skin of one of two strains of mice tested. Recent studies have suggested slight increases in two systemic tumor types following repeated application of certain DGEBA- containing resins (or pure DGEBA), although the response was not uniform among practically identical resins. Based on these data, and the other studies which have not shown cancer, the cause-effect relationship between

DGEBPA-treatment and these tumor increases is questionable. Indeed, a recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBPA is not classifiable as to its carcinogenicity.

TERATOLOGY (BIRTH DEFECTS): DGEBPA did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

REPRODUCTIVE EFFECTS: DGEBPA did not interfere with reproduction in animal studies.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Animal mutagenicity studies were negative. In vitro mutagenicity studies were negative in some cases and positive in others.

7. FIRST AID

EYES: Flush eyes with plenty of water.

SKIN: Wash off in flowing water or shower.

INGESTION: Induce vomiting if large amounts are ingested. Consult medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: No respiratory protection should be needed. If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Wear clean, long-sleeved, body-covering clothing. Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation.

EYE PROTECTION: Use safety glasses. Where contact with this material is likely, chemical goggles are recommended because eye contact may cause discomfort even though it is unlikely to cause injury.

9. ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: See Dow bulletin entitled "Storage, Handling, and Toxicity of Dow Epoxy Resins". Practice good caution and personal cleanliness to avoid skin and eye contact. Avoid breathing vapors of heated material.

MSDS STATUS: Revised sections 6, 7, 8 and Regulatory Information

U. S. REGULATIONS:

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA “Hazard Categories” promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories.

AN IMMEDIATE HEALTH HAZARD: This product is categorized as “an immediate health hazard due to the potential for allergic skin reaction.”

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