



SAFETY DATA SHEET

U.S. Department of Labor
Occupational Safety & Health Administration

Polafloor Epoxy Topping - Part A

SECTION 1 - IDENTIFICATION

MANUFACTURER: Andek Corporation
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PRODUCT IDENTIFIER: Polafloor Epoxy Topping - Part A
RECOMMENDED USE: Industrial Floor Coating

SECTION 2 – HAZARD IDENTIFICATION

HAZARD CLASSIFICATION (EFFECTS OF EXPOSURE):

Skin: Irritant – Category 2 Sensitization – Category 1

Ingestion: **Do Not** ingest. Toxicity Category 4

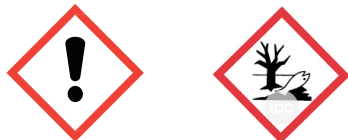
Aquatic Toxicity: Category 2

SIGNAL WORD: Warning - no hazard in normal industrial use.

HAZARD STATEMENTS:

- May be harmful if swallowed.
- Causes mild skin irritation.
- May cause an allergic skin reaction.
- Causes eye irritation.

PICTOGRAMS:



PRECAUTIONARY STATEMENTS:

Prevention:

- **Do Not** get in eyes, on skin, or on clothing.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- **Skin:** Wash with plenty of water.
- **Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing. If eye irritation persists get medical advice/attention.
- **Inhalation:** No specific measures.
- **Ingestion:** Rinse mouth. **Do Not** induce vomiting.

Storage:

- Store in a dry place. Store in a closed container.

Disposal:

- Waste disposal should be in accordance with existing federal, state and local environmental control laws.
- Incineration is the preferred method.

SECTION 3 – COMPOSITION

CHEMICAL NAME	CAS #	APPROX %
Epoxy Resin	25068-38-6	100

SECTION 4 – FIRST AID MEASURES

Skin:

- **Do Not Delay** - Remove contaminated clothing, and wash skin with water using soap if available.
- If persistent irritation occurs, obtain medical attention.

Eyes:

- **Do Not Delay** - Flush eye with water.
- If persistent irritation occurs, obtain medical attention.

Inhalation:

- No specific measures.

Ingestion:

- **Do Not** induce vomiting.
- In the unlikely event of ingestion, obtain medical attention immediately.

Advice to physicians:

- If skin sensitization has developed and a causal relationship has been confirmed further exposure should not be allowed.

SECTION 5 – FIRE-FIGHTING MEASURES

Specific hazards:

- Not classified as flammable but will burn.
- Carbon monoxide may be evolved if incomplete combustion occurs.

Extinguishing media:

- **Small fires:** Dry chemical powder, carbon dioxide, foam, water spray or fog, sand or earth.
- **Large fires:** Foam, water spray or fog.

Unsuitable extinguishing media:

- Water in a jet.

Protective equipment:

- Full protective clothing and self-contained breathing apparatus.

Other Information:

- Keep adjacent containers cool by spraying with water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:

- Avoid contact with skin, eyes and clothing.

Personal protection:

- Wear protective clothing specified for normal operations (see Section 8).

Environmental precautions:

- Prevent contamination of soil and water.
- Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- If material enters drains, it should be pumped out into an open vessel. Emergency services may need to be called to assist in this operation.

Clean-up methods - small spillage:

- Absorb or contain liquid with sand, earth or spill control material.
- Shovel up and place in a labeled, sealable container for subsequent safe disposal.
- Scrub contaminated surfaces with a detergent solution.
- Retain washings as contaminated waste.
- Put leaking containers in a labeled drum or over drum.

Clean-up methods - large spillage:

- Transfer to a labeled container for product recovery or safe disposal.
- Otherwise treat as for small spillage.

Other information:

- See Section 13 for information on disposal.

SECTION 7 – HANDLING & STORAGE

Handling:

- Avoid contact with skin, eyes and clothing.

Storage:

- Keep container tightly closed and dry.
- Palletized loads should be stacked to a maximum of 4 high.
- Storage temperatures: between 50°F and 90°F.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

CHEMICAL NAME	PEL	TLV (Oral toxicity)
Epoxy Resin	N/A	LD50 >8g/kg

Occupational exposure standards:

- None established.

Inhalation protection:

- Not normally required,
- In a confined space, wear half mask respirator with organic vapor cartridge and built-in particulate filter NPF 20 (gas only).

Eye protection:

- Mono-goggles

Skin and body protections:

- Nitrile rubber gloves or butyl rubber gloves, gauntlet type.
- Standard issue work clothes.
- Safety boots - chemical resistant without lace holes.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous, Newtonian liquid

Physical state: Liquid

Color: Transparent, pale yellow

Odor: Slight

Odor threshold: None established.

pH: 7.0

Melting point/freezing point: Crystallizes below 50°F / re-melts at above 100°F.

Initial boiling point and boiling range: 390 to 400°F

Flash point: 392°F

Evaporation rate: Non volatile.

Flammability (solid, gas): Not flammable but combustible at high temperatures.

Upper/lower flammability or explosive limits: None established.

Vapor pressure: 0.01 Pa @20°C

Vapor density: None established.

Relative density: 1.16 kg/l

Solubility: Insoluble with water

Partition coefficient: n-octanol/water: 0g P_{ow} >3

Auto-ignition temperature: 572°F

Decomposition temperature: None established.

Viscosity: 1,400 centipoises @25°C

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:

- Reacts with strong oxidizing agents.
- Polymerizes exothermically with amines, mercaptans and Lewis acids at ambient temperature and above.
- Polymerizes in contact with caustic soda.
- Reacts exothermically with bases (e.g. caustic soda), ammonia, primary and secondary amines, alcohols and acids.

Chemical stability:

- Stable under normal use conditions.

Incompatibility (materials to avoid):

- Strong oxidizing agents. Caustic soda.

Hazardous decomposition products:

- Not expected to form during normal storage.

Conditions to avoid:

- Caustic soda can induce a vigorous polymerization at temperatures around 200°C.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely routes of exposure:**Oral:**

- Unlikely, but if swallowed, epoxy resin has low toxicity in small amounts.
- Swallowing large amounts may cause injury.

Inhalation:

- Not irritating at room temperature.
- Vapor from heated products may cause irritation.

Dermal:

- Prolonged or repeated contact may cause skin irritation with local redness.
- Prolonged contact is unlikely to result in absorption of harmful amounts.
- Sensitization may occur in some individuals.

Effects from short and long term exposure:

- Many studies have been conducted including a recent review by the international agency for research on cancer (IARC) to assess the potential carcinogenicity of epoxy resin.
- All available data concludes that it is not classifiable as to its carcinogenicity or mutagenicity.

Numerical measures of toxicity:

CHEMICAL NAME	Oral LD50	Dermal LD50	Inhalation LC50
Epoxy Resin	>2,000 mg/kg	>2,000 mg/kg	N/A

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Fish LC50 (96 HR) = 1.41 mg/l Crustaceans EC50 (48 HR) = 1.7 mg/l

Biodegradation: Not readily biodegradable but will degrade slowly on the surface by photodegradation.

Bioaccumulation potential: It has the potential to bioaccumulate with an octanol/water partition coefficient log P_{ow} of >3.

Mobility in soil: Epoxy resin will bind to soil particles but it is insoluble in water and will sink to the bottom.

Other adverse effects: This epoxy resin is a reaction product of Bisphenol A and Epichlorohydrin. There have been numerous studies conducted to assess the ecological characteristics of both of these substances. None, however, were determined to be relevant in this instance.

SECTION 13 – DISPOSAL CONSIDERATIONS

Precautions: See Section 8. Refer to Section 7 before handling the product or containers.

Disposal of waste/ product:

- Recover or recycle if possible.
- Otherwise incineration or dispose to licensed disposal contractor.

Disposal of contaminated packaging:

- Drain container thoroughly
- Rinse three times with suitable solvent. Treat rinsings as for product disposal.
- After draining, vent in a safe place away from sparks and fire.
- Send to drum recoverer or metal reclaimer.

SECTION 14 – TRANSPORT INFORMATION

UN #	None
UN PROPER SHIPPING NAME:	Paint
HAZARD CLASS:	N/A
PACKING GROUP:	N/A
ENVIRONMENTAL HAZARDS:	Not a marine pollutant
GUIDANCE ON TRANSPORT IN BULK:	N/A

Transport labels required: This material is not regulated by the D.O.T.

SECTION 15 – REGULATORY INFORMATION

US Federal Regulation:

SARA 311/312 Hazard Categories: Not listed

US State Right to Know Regulations: New Jersey, Massachusetts, Pennsylvania, Rhode Island

CHEMICAL NAME	CAS #
Epoxy Resin	25068-38-6

CA Prop 65: Not listed

Canada

CHEMICAL NAME	CAS#
Epoxy Resin	25068-38-6

SECTION 16 – OTHER INFORMATION (HMIS RATING)

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	H

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