



Material Safety Data Sheet

EMERGENCY CONTACTS

Spills, leaks, fire or exposure call Chemtreea (800) 424-9300

Product Name:

HMIS[®] Rating:

Product Use:

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer / Suppliers:

Karna-Sil Epoxy Primer - A

Epoxy Primer
KARNAK Corporation
330 Central Avenue
Clark, NJ 07066
(800) 526.4236

Health	1
Flammability	0
Reactivity	0
Personal Protection	X

0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Section 2: HAZARDS IDENTIFICATION:

The ingredients in this material are classified as Non-hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Acute Health Effects

Eyes: May cause irritation with symptoms of reddening, tearing, stinging and swelling.

Skin: May cause irritation.

Inhalation: If breathing vapor while spraying may cause respiratory tract irritation.

Ingestion: May include abdominal pain, nausea, vomiting, and diarrhea.

General Information: Read the entire MSDS for a more thorough evaluation of the hazards.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS-No.	Content
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	10-30%
Titanium Dioxide	13463-67-7	1-10%

Section 4: FIRST AID MEASURES

General rules, in case of doubt or if symptoms persist, always call a doctor.

Inhalation: If inhaled, remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. If systems persist, obtain medical advice.

Ingestion: Do NOT induce vomiting without medical advice. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Skin contact: Immediately remove contaminated clothing and shoes. Wash affected areas, including hair, beneath nails and other concealed areas with soap and water. Get medical attention if symptoms occur.

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish preferably with dry chemical, carbon dioxide or foam. Water spray/mist may be used. Do not use water jet.

Special Protective Equipment for Fire-fighters: Wear self-contained breathing apparatus.

Products of Combustion: Thermal decomposition products are toxic and may include oxides of carbon and other irritating or toxic gases.

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Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear personal protective equipment. Avoid breathing vapor while spraying. Ensure adequate ventilation. Remove contaminated clothes as soon as possible.

Environmental: Prevent spills to enter and spread to drains, sewers, water courses, and soil.

Spill Clean Up Methods: Absorb leaking product with sand, earth or other suitable inert material and collect. Dispose of material in accordance with local and provincial standards.

Section 7: HANDLING AND STORAGE

Usage Precautions: Avoid spilling, skin and eye contact. Provide good ventilation. Persons susceptible for allergic reactions should not handle this product. Keep from contact with strong oxidizing materials. Do not get on skin or clothing. Do not get in eyes. Do not breathe vapors or spray mist.

Storage Precautions: Store in tightly closed container and avoid freezing.

Storage: Store at ambient temperature, or between 32 and 98 degrees F. Keep in original container.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Exposure via the air and normal handling.

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer CAS # 25068-38-6
Exposure Limit (ACGIH and TLV): None established

Engineering Measures: Use local and general exhaust ventilation to minimize airborne concentrations. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operation procedures demand it.

Personal Protective Equipment:

-Respiratory Equipment: If the product is heated or sprayed under manual handling, use NIOSH approved, air-purifying respirator with organic vapor cartridges and N-95 filters. Full face-piece is recommended. None required under normal conditions of use.

-Body and Hands Protection: Wear suitable gloves: neoprene, nitrile or acrylonitrilebutadiene rubber or PVC. Wear full chemical suit when manually spraying this material. Change suit or clean gloves if contaminated.

-Eye Protection: Wear chemical safety goggles / full face shield if there is a potential for splashing. -

Hygiene Measures: DO NOT SMOKE IN WORK AREA! Wash hands and any other area that may have been exposed at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous White Liquid

Odor: Faint aromatic odor

Color: White

Flash Point: >100 deg C.

Solubility in Water: Semi-soluble.

Specific Gravity: 1.405 g/ml

VOC: None

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions

Conditions to Avoid: Strong oxidizing agents

Hazardous Decomposition Products: Thermal decomposition products by fire are toxic and may include hydrocarbons and oxides of carbon.

Section 11: TOXICOLOGY INFORMATION

Toxicity Data for: 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer CAS# 25068-38-6 (10-30%)

Test	Species	Result
LD50, Oral (Acute)	Rat	>2000 mg/kg
LD50, Dermal (Acute)	Rabbit	>2000 mg/kg

Potential Acute Health Effects

Skin Contact: Mild irritation potential.

Eye Contact: Mild irritation potential.

Inhalation: Irritating when breathing in mists or vapors in spray applications.

Ingestion: Not likely to be a relevant route of exposure, but refer to Section 4.

Potential Chronic Health Effects

Mutagenicity: Resins similar to 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer (CAS# 25068-38-6) have shown activity in invitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat liver cells. The significance of these tests to man is unknown.

Carcinogenicity: No conclusive evidence of carcinogenicity in any of the components.

Teratogenicity: No known significant effects or critical hazards. **Fertility Effects:** No known significant effects or critical hazards. **Sensitization:** 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer (CAS# 25068-38-6) has been shown in some cases to cause skin sensitization.

Section 12: ECOLOGICAL INFORMATION

Biodegradation: Not readily biodegradable.

Ecotoxicity: No information available.

Section 13: DISPOSAL CONSIDERATIONS

Not considered as hazardous waste by RCRA criteria (40 CFR 261). Dispose of waste material at an approved waste treatment facility in accordance with applicable local, state and national laws. Do not dispose of waste with normal garbage, or to sewer systems. Empty containers should be decontaminated and passed to an approved recycler.

Section 14: TRANSPORTATION INFORMATION

Not regulated by the DOT, ICAO/IATA or IMDG.

Section 15: REGULATORY INFORMATION

Federal Regulations

Hazardous Categories:

US Toxic Substances Control Act: All products are on the TSCA inventory

US EPA CERCLA Hazardous Substances (40 CFR 302): Components: None

SARA Section 311/312 for 4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer CAS# 25068-38-6: Chronic Health Hazard

SARA Section 313: No ingredients of this product are listed.

SARA Section 302: No ingredients of this product are listed.

State Regulations

California Proposition 65: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Massachusetts, New Jersey or Pennsylvania Right to Know Substances Lists: None

HMIS-Hazardous Materials Identification System:

Health - 1 Flammability - 0 Physical Hazard - 0 PPE — X

NFPA — National fire Protection Association:

Health - 1 Fire - 0 Reactivity — 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Section 16: OTHER INFORMATION

- Glossary:** ACGIH- American Conference of Governmental Industrial Hygienist
IARC- International Agency for Research on Cancer
MSHA- Mine Safety and Health Administration
NIOSH- National Institute for Occupational Safety and Health
NTP- National Toxicology Program
OSHA- Occupational Safety and Health Administration

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End of Data Sheet

KEEP OUT OF REACH OF CHILDREN!!