

M A T E R I A L   S A F E T Y   D A T A   S H E E T

EPOXY, HI-TECH 102 GRAY, PART A

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**MANUFACTURER:** SIERRA CORP/TK PRODUCTS  
**ADDRESS :** 11400 WEST 47TH STREET  
 MINNETONKA, MN 55343

**EMERGENCY PHONE:** 1-800-424-9300  
**INFORMATION PHONE:** (952)938-7223

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NAME OF PREPARER : Safety Director

===== SECTION 1 - PRODUCT IDENTIFICATION =====

**PRODUCT NAME:** EPOXY, HI-TECH 102 GRAY, PART A  
**PRODUCT CODE:** TK-9102

**HMIS CODES:** H F R P  
 2 1 0 B

===== SECTION 2 - COMPOSITION/INGREDIENT INFORMATION =====

COMPONENT	CAS NUMBER	WEIGHT PERCENT	EXPOSURE LIMITS		
			OSHA PEL	ACGIH TLV	OTHER
TITANIUM DIOXIDE	13463-67-7	26.7			
ISOPHORONE DIAMINE	2855-13-2	20.5	10 mg/m3	10 mg/m3	
BENZYL ALCOHOL	100-51-6	20.5	10 PPM		
4-NONYL HYDROXYBENZENE, NONYLPHENOL	25154-52-3	10.7			
MODIFIED ALIPHATIC AMINE	N/A	Range Not Found			
CALCIUM CARBONATE	1317-65-3	6.7			
# CARBON BLACK	1333-86-4	.1	15 MG/M3	10 MG/M3	NUISANCE DUST
			3.5 MG/M3	3.5 MG/M3	

\* Indicates chemical(s) that are chronic health hazards. Refer to section 3 for further information.

# Indicates chemical(s) which may be considered a cancer hazard by IARC and/or NTP. Refer to section 11 for further information.

===== SECTION 3 - HEALTH HAZARDS IDENTIFICATION =====

PRIMARY ROUTES OF EXPOSURE: Skin contact.

**EFFECTS OF ACUTE EXPOSURE:**

**EYES:** Corrosive to eyes. Contact with eyes may cause severe irritation and burns. Nonylphenol is corrosive and may do irreversable damage to eyes such as cornea damage and blindness.

**SKIN:** Corrosive to skin and mucous membranes. Contact with skin may cause severe irritation and burns. May be absorbed through skin in toxic amounts. Nonylphenol is corrosive and may do irreversable damage to skin.

**INHALATION:** Inhalation of vapor or mist can cause irritation of nose, throat and lungs and lead to headaches and nausea.

**INGESTION:** Not an anticipated route of exposure. Small amounts are not expected to be harmful. Can cause gastrointestinal irritation, nausea, vomitting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

**CHRONIC HEALTH EFFECTS:**

Although some components may indicate chronic exposure effects, no effects are anticipated under normal use conditions due to the relatively low proportion in the total mixture.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

No known effects on other illnesses.

**=====  
SECTION 4 - FIRST AID MEASURES  
=====**

**EYES:** Flush with large amounts of water for 15 minutes, lifting upper and lower eyelids. If irritation persists seek medical attention.

**SKIN CONTACT:** Wash contaminated area with soap and water. Remove and launder contaminated clothing.

**INGESTION:** If a large amount is ingested, give water or milk and induce vomiting. Seek medical attention.

**INHALATION:** Remove victim to fresh air and provide oxygen if breathing is difficult. If breathing has stopped administer artificial respiration. Seek medical attention if condition persists.

**=====  
SECTION 5 - FIRE AND EXPLOSION HAZARD DATA  
=====**

**FLASH POINT:** Greater than 200 F                      **METHOD USED:** PMCC  
**FLAMMABLE LIMITS IN AIR BY VOLUME-** LOWER: n/a                      UPPER: n/a

**EXTINGUISHING MEDIA:** This material will not burn in its liquid state unless heated above its flash point. Dried films may burn and can be extinguished by water spray, foam, dry chemical or carbon dioxide.

**SPECIAL FIREFIGHTING PROCEDURES:**

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool these containers.

**=====  
SECTION 6 - ACCIDENTAL RELEASE MEASURES  
=====****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Do not let spilled or leaking material enter watercourse. May be toxic to aquatic life. Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Wear appropriate protective equipment.

**=====  
SECTION 7 - HANDLING AND STORAGE  
=====****HANDLING INFORMATION:**

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communicatin Standard. Wear chemical resistant gloves and protective clothing to minimize contact. The use of respiratory

protection is advised when spraying because of mist and dust overspray.

**STORAGE INFORMATION:**

Keep from freezing; material may coagulate. The minimum recommended storage temperature is 34F/1C, the maximum recommended storage temperature is 120F/49C. Keep away from incompatible materials (see section 10). Keep containers tightly closed. It is advised that material be used within 1 year of manufacture, rotate stock.

**OTHER PRECAUTIONS:**

All empty containers should be disposed of in an environmentally safe manner in accordance with all governmental regulations.

**===== SECTION 8 - CONTROL MEASURES/PERSONAL PROTECTION =====****RESPIRATORY PROTECTION:**

No special requirements under normal use conditions. In confined areas, or areas with poor ventilation, engineering controls should be used to minimize exposure. Use NIOSH/MSHA approved respirator if conditions warrant.

**VENTILATION:**

General room ventilation is adequate.

**PROTECTIVE GLOVES:**

Prevent prolonged or repeated contact by wearing chemical resistant gloves and other appropriate protective clothing. Launder contaminated clothing before reuse.

**EYE PROTECTION:**

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI Z87.1 or approved equivalent) are appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

**WORK/HYGIENIC PRACTICES:**

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidelines.

**===== SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES =====**

PHYSICAL STATE: Liquid

ODOR: Amine or ammonia odor

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.35

BOILING RANGE:

% VOLATILE: 2.06%

COLOR: Various colors

SOLUBILITY IN WATER: Dilutable

VAPOR DENSITY: Heavier than air.

EVAPORATION RATE: Slower than nBuAc

COATING V.O.C.: 26 g/l (.22 lb/gal)

## ===== SECTION 10 - STABILITY/REACTIVITY DATA =====

STABILITY: Stable.

**CONDITIONS TO AVOID:**

None known

**INCOMPATIBILITY (MATERIALS TO AVOID):**

Avoid exposure to strong oxidizing agents and reducing agents.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**

Combustion may liberate toxic byproducts such as carbon dioxide, and carbon monoxide, various oxides of carbon and nitrogen. Thermal decomposition may liberate acrylic monomers and ammonia.

HAZARDOUS POLYMERIZATION: Will not occur.

## ===== SECTION 11 - TOXICOLOGICAL INFORMATION =====

SENSITIZATION: None known.

CARCINOGENICITY: The indicated chemical(s) is listed by ICGIH, NTP, or OSHA as a known human carcinogen (See section 2). IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" and inadequate evidence of carcinogenicity in humans, and overall evaluated carbon black as a "possible carcinogen to humans" (Group 2B). Carbon black has not been listed as a carcinogen by NTP or OSHA. Because this product is a free flowing liquid, inhalation is not an expected route of exposure.

REPRODUCTIVE TOXICITY: There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

TERATOGENICITY (BIRTH DEFECTS): There is no data available to indicate any components present at greater than 0.1% may cause birth defects.

MUTAGENICITY: There is no data to indicate that any component present at greater than 0.1% will alter DNA.

## ===== SECTION 12 - ECOLOGICAL INFORMATION =====

ENVIRONMENTAL DATA: Contains ammonia or amines which may be toxic to aquatic life. Nonylphenol is a marine pollutant.

## ===== SECTION 13 - DISPOSAL CONSIDERATIONS =====

This product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261, however, state and local regulations may be more restrictive. Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

===== SECTION 14 - TRANSPORTATION INFORMATION =====

SHIPPING NAME: Paint, 8, UN3066  
 PACKING GROUP: II

===== SECTION 15 - REGULATORY INFORMATION =====

ALL INGREDIENTS OF THIS PRODUCT ARE LISTED OR ARE EXCLUDED FROM LISTING ON THE US TOXIC SUBSTANCES CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY.

This product does not contain a chemical subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372) above de minimis concentrations.

**STATE SPECIFIC REQUIREMENTS:**

This product contains a chemical(s) known to the state of California to cause cancer, birth defects or reproductive harm, which are subject to the requirements of California Proposition 65.

STATE LISTED COMPONENTS	CAS NUMBER	STATE CODE
Benzyl Acohol	100-51-6	CA,FL,MA,PA,NJ

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