

Material Safety Data Sheet

MANUFACTURER:
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Non-emergency Phone:
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HEALTH HAZARDS

HEALTH: 2
FIRE: 1
REACTIVITY 0
FLASH POINT 255°F METHOD USED: PBCC

PRODUCT NAME:
GEH4003 HARDENER

HAZARD MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS:
Plastic material-liquid NOIBN Not restricted

CHEMICAL FAMILY FORMULA
Epoxy Hardener formulated proprietary

		HAZARDOUS INGREDIENTS	
CAS#	% (optional)	CHEMICAL NAMES	TLV/PEL
68 410-23-1	---	Polyamide	----
00 112-24-3	----	safety adduct amino	---

KEY: --LIMITS HAVE NOT BEEN ESTABLISHED

PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point	500F
Vapor Pressure:	1mm Hg @ 100C
Vapor Density (air=1)	n/a
Solubility in water	soluble
Specific Gravity (h20=1)	0.960
Percent volatile by volume (%)	nil
Evaporation rate (=1)	<1
Percent solid by weight (%)	100%
Appearance and odor	clear , amber liquid: Ammonia odor
Analytical	8 lbs/gal

FIRE AND EXPLOSION DATA

Flammable Limits: LEL not established UEL not established

Extinguishing Media: Water, fog, foam, chemical, CO2

Special Fire Fighting Procedures: Do not enter confined fire space without full protective gear including a positive pressure, self-contained, NIOSH approved breathing apparatus. Cool fire exposed container with water.

Unusual fire and explosion hazard; Container areas exposed to intense heat or flame should be cooled with H2O to prevent pressure build up and or weakening of container structure.

REACTIVITY DATA

Stability Stable

Conditions to avoid: Avoid high temperatures, open flames and unscheduled contact with curing agents.

Incompatibility: Incompatibility with strong oxidizing agents, strong acids and bases, secondary aliphatic amines and mercaptans.

Hazardous decomposition: Carbon Dioxide (CO₂) Carbon Monoxide (CO), aldehydes, acids and other organic substances may be formed during high temperature degradation.

Hazardous polymerization: Will not occur

Conditions to avoid: Avoid mixing resin and hardener in uncontrollable quantities.

HEALTH HAZARD DATA

Chemical listed as carcinogen or potential carcinogen in NTP, IARC or OSHA 1910(Z)
This material is neither carcinogenic nor potentially carcinogenic

EFFECTS OF OVEREXPOSURE

Skin contact: skin contact may result in irritation or chemical burn

Eye contact: can cause severe eye irritation, swelling and/or chemical burn. Contact lenses should not be worn when working with this material.

Inhalation: vapor is irritating to upper respiratory system and mucous membranes

Ingestion: Liquid causes damage to mucous membranes if swallowed

Primary routes of entry: skin contact

EMERGENCY AND FIRST AID PROCEDURES;

Inhalation: Remove victim to fresh air

Eyes: Flush eyes with generous amounts of water for at least 15 minutes. Get medical Attention IMMEDIATELY

Skin: Immediately Wash thoroughly with soap and water

Ingestion: If swallowed, do not induce vomiting. Give large amounts of water. Call physician. Treatment based on judgment of physician in response to reactions of patient.

OCCUPATIONAL EXPOSURE LIMITS

OSHA Permissible Exposure limit: OSHA limits have not been established for this product.

ACGIH Threshold Limit value: ACGIH limits have not been established for this product.

SPECIAL PROTECTION INFORMATION:

Respiratory Protection: Wear NIOSH approved respiratory protection where exposure limits are exceeded or in the absence of proper environment control.

Ventilation: Use only with adequate ventilation. Local exhaust is recommended. Mechanical exhaust can be used as back up system

Protective Gloves: Chemical resistant gloves such as PVA

Eye protection: NIOSH approved safety glasses or goggles with side shields

Other protective
Equipment or clothes: Chemical resistant clothing as required to minimize skin contact

SPILL OR LEAK PROCEDURES

Steps to be taken in case of material release or spillage:

Use cautious judgment when cleaning spills. Small spills may be collected with absorbent material such as clay or sand. Large spills should be diked and contained with absorbent material. Flush areas with water spray to remove residue. Dispose of flush legally.

Waste Disposal methods: Dispose in accordance with local, state or federal regulations

SPECIAL PRECAUTIONS

Precaution to be taken in handling and storage:

Store in ambient temperature in well ventilated area. Avoid sparks, open flame and extreme heat. Store away from amine curing agents. Protect container from physical damage.

Other precautions:

Empty containers can contain product residues. Handle in accordance with good industrial practices. Avoid prolonged or repeated contact with skin. Wash with soap and water before eating, drinking, smoking or applying cosmetics or using toilet facilities. Launder contaminated clothing before use.

Key:

N/A or NA = not applicable

UI = unavailable information

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