

MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

TRADE NAME: TORQ LOK
CHEMICAL NAMES: Modified Epoxy

SECTION II & III: HAZARDOUS INGREDIENTS

CHEMICAL NAMES:	CAS NUMBER	EXPOSURE LIMIT	
		ACGIH (TWA)	OSHA (PEL)
Epoxy Resin, Bis-A	001675543	N.E.	N.E.

The epoxy resin used in this product contains epichlorhydrin at less than 0.000001 (<1ppm) parts by weight, known to the State of California to cause cancer or birth defects. However, at this level Epoxy Pax believes there is no substantial health risk when used per recommendations listed herein.

This material contains mineral fillers in a completely wetted, non-airborne form. If cured forms of this material are cut, machined, sanded or handled in any way that may release particles into the air, proper care should be taken not to inhale the dust. A proper-fitting, NIOSH approved particulate respirator is recommended.

VENTILATION: Use adequate ventilation. Local exhaust is recommended to when appropriate to control employees exposure.

RESPIRATORY PROTECTION: Use NIOSH approved organic vapor respirator if needed.

EYE PROTECTION: Safety goggles with side shields recommended.

GLOVES: Rubber or latex gloves recommended.

CLOTHING: Protective smock recommended.

STORAGE: Store at recommended temperature at all times.

BREAK-OUT SAFETY: The fumes emitted when heating Torq Lok, like any smoke, should be avoided. Break-out procedures should be performed in a well-ventilated area and an appropriate NIOSH approved cartridge mask is recommended.

SECTION IV: HEALTH HAZARD INFORMATION

ROUTES OF EXPOSURE AND POSSIBLE SYMPTOMS

HMIS: Health 2, Flammability 1, Reactivity 1

INHALED: Heated product will produce vapors that may be harmful if inhaled.

SKIN CONTACT: Can cause redness of skin and irritation in sensitive individuals.

EYE CONTACT: Possible extreme irritation

INGESTION: Information is not available; however, moderate potential for oral toxicity is expected.

SKIN ABSORPTION: Harmful if absorbed through skin.

HEALTH EFFECTS OR RISKS FROM EXPOSURE

ACUTE: This product may cause dermatitis in sensitive individuals.

CARCINOGENIC?: This product is not considered to be carcinogenic by Massachusetts "Right-To-Know," OSHA, IARC, ACGIH and NTP.

FIRST AID

EYE CONTACT: Flush with water for at least 15 minutes. Seek medical attention.

SKIN CONTACT: Wash immediately with soap and water. If irritation persists, seek medical attention.

INHALED: Remove to fresh air.

INGESTION: Seek medical attention immediately.

SECTION V: FIRE-FIGHTING MEASURES

FLASH POINT (°F): >300°F

AUTOIGNITION TEMPERATURE: Not applicable

FLAMMABLE LIMITS IN AIR: Not applicable

UNUSUAL FIRE & EXPLOSION HAZARDS: None known.

FIRE EXTINGUISHING MATERIALS: Carbon dioxide, foam or dry chemical.

FIRE EXTINGUISHING PROCEDURES: Firefighters should wear self-contained breathing apparatus.

SECTION VI: ACCIDENTAL RELEASE MEASURES

TorqLok is packaged in preformulated packages. If material is spilled, allow to cure and dispose of in accordance with local laws. Land-fill burial for TorqLok is acceptable. TorqLok is not a hazardous waste when cured under RCRA (40 CFR 261).

SECTION VII: HANDLING AND STORAGE

HANDLING AND STORAGE: TorqLok may be stored at room temperature. However, we recommend TorqLok be refrigerated or frozen to keep the product fresh. When handling material, observe guidelines listed in Section VIII.

SECTION VIII: SPECIAL HANDLING INFORMATION

VENTILATION: Use adequate ventilation. Local exhaust is recommended to when appropriate to control employees exposure.

RESPIRATORY PROTECTION: Use NIOSH approved organic vapor respirator if needed.

EYE PROTECTION: Safety goggles with side shields recommended.

GLOVES: Rubber or latex gloves recommended.

CLOTHING: Protective smock recommended.

STORAGE: Store at recommended temperature at all times.

BREAK-OUT SAFETY: The fumes emitted when heating Torq Lok, like any smoke, should be avoided. Break-out procedures should be performed in a well-ventilated area and an appropriate NIOSH approved cartridge mask is recommended.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY: Not applicable

MELTING POINT (°C): Not applicable

SPECIFIC GRAVITY: 1.55

BOILING POINT (°C): Not available

VAPOR PRESSURE: mmHg @20°C: Not applicable

PERCENT VOLATILE BY WEIGHT: None

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE (BUTYL ACETATE=1): Not applicable

APPEARANCE AND ODOR: Gray viscous liquid with mild ammoniacal odor.

SECTION X: STABILITY AND REACTIVITY DATA

STABILITY: X Stable Unstable
CONDITIONS TO AVOID: Heat prior to cure.
INCOMPATIBILITY OF (MATERIAL TO AVOID): Alkalies, acids and strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and aldehydes.
HAZARDOUS POLYMERIZATION: May occur X Will not occur
CONDITIONS TO AVOID: Excessive heat.

SECTION XI: TOXICOLOGICAL INFORMATION

CHEMICAL NAMES:	CAS NUMBER	EXPOSURE LIMIT	
		ACGIH (TWA)	OSHA (PEL)
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SECTION XII: SPILL, LEAK AND DISPOSAL

SPILL PROCEDURES: Wipe-up spills with solvent-saturated toweling and collect in appropriate container for disposal.

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: When this product is cured, land fill burial is OK. It is not a hazardous waste when cured under RCRA (40 CFR 261).

SECTION XIV: TRANSPORT INFORMATION

SHIPPING: TorqLok is non-flammable and non-hazardous. There are no specific shipping and handling instructions for TorqLok.

SECTION XV: REGULATORY INFORMATION

TorqLok is not regulated in the United States.

SECTION XVI: OTHER INFORMATION

ACGIH	American Conference of Governmental Industrial Hygienists
Ceiling	Maximum exposure limit defined by OSHA
CAS	Chemical Abstract Service
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
RTK	Right to Know
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TRADE SECRET	Claimed as allowed under 29CFR 1910.1200