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Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: JET-LOK® II EPOXY COMPOUND

Product Code(s): 608

Recommended Use: Thread Sealant, adhesive

Distributor Address:

Jet-Lube, LLC
930 Whitmore Dr.
Rockwall, Texas 75087
TEL: 972-771-1000
Toll Free: 1-800-669-6318

Emergency Telephone Number: CHEMTREC: 703-741-5500

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance 29 CFR 1910.1200 (OSHA HCS)

Irritant, Skin (Category 2) Irritant,
Eye (Category 2B) Sensitization,
Skin (Category 1A)

OSHA / GHS Label Elements, including precautionary statements

Pictograms:



Signal word:

Warning

Hazard Statement(s)

Causes skin irritation
Causes eye irritation
May cause an allergic skin reaction

Precautionary Statement(s)

Prevention:

Avoid breathing dust, fume, mist or spray.
Wash face, hands and any exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, clothing, eye protection or face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Wash contaminated clothing before reuse.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 If eye irritation persists: Get medical advice attention.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EINECS Number	Weight %	EU Classification*
4,4'-Isopropylidenediphenol-epichlorohydrin copolymer	25068-38-6	500-033-5	25-45	Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2
Epoxy phenol novolac resin	28064-14-4	NA	10-15	Not classified
Zinc	7440-66-6	231-175-3	15-20	Aquatic Acute 1 Aquatic Chronic 1
Calcium Silicate	13983-17-0	237-772-5	10-15	Not classified
Talc	14807-96-6	238-877-9	5-10	Not classified
Microcrystalline silica as quartz	14808-60-7	238-878-4	<5	Not classified
Silicon dioxide	67762-90-7	NA	<2	Not classified

**EU Classification is for pure concentrations of the individual materials only, and represents classification under EU regulations. It does not represent the mixture itself.*

4. FIRST AID MEASURES

Skin Contact: Remove contaminated clothing. Flush affected area with soap and plenty of water for at least 15 minutes. If irritation develops or persists, seek medical attention.

Eye Contact: Flush eyes with warm water for at least 20 minutes. Hold eyelids apart to ensure complete irrigation of the eyes. Remove contact lenses. Seek immediate medical attention.

Inhalation: Move to fresh air. If breathing is difficult provide oxygen. If not breathing, immediately begin rescue breathing. If heart has stopped, provide cardiopulmonary resuscitation (CPR). Seek immediate medical attention.

Ingestion: Wash out mouth with water. Do not induce vomiting. If vomiting occurs spontaneously, place head lower than knees, or, if unconscious, in rescue position. Seek immediate medical attention.

Notes to Physician: Maintain adequate ventilation and oxygenation of patient.

5. FIRE AND IGNITION INFORMATION

Flash Point >484°F (>251°C)

Explosion Limits in Air – Lower (%): Not established for the product itself

OSHA Flammability Classification: Combustible

Auto-ignition Temperature: Not established for the product itself.

Extinguishing Media: Dry chemical, carbon dioxide, foam, dry sand, limestone powder.

Special Protective Equipment for

Firefighters:	Fire fighters should wear full turn-out gear, including a NIOSH approved self-contained breathing apparatus operated in pressure-demand or other positive pressure when fighting fires.
Specific Hazards:	Not established for the product itself.
Hazardous Decomposition and/or Combustion Products:	Oxides of carbon, smoke, fumes, unburned hydrocarbons, aldehydes, and cyanides. Nitric acid, ammonia, Nitric oxides,
Risk of Dust Explosion:	Not applicable.

HMIS **Health Hazard 2** **Flammability 1** **Physical Hazard 0** **Personal Protection X**

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Only trained personnel should clean a spill. Evacuate all non-essential personnel. Ventilate spill area.. Avoid breathing vapors, eye and skin contact. Wear appropriate personal protective equipment.
Methods for Cleaning Up:	Evacuate non-emergency personnel. Isolate the area and prevent access. Ensure adequate ventilation. Eliminate all ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer to a waste container. Scrape-up/off dried materials. The waste can then be disposed of in accordance with all applicable local, state, and federal regulations. Ensure adequate ventilation.
Environmental Precautions:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Construct a dike to prevent spreading. Do not allow spilled material onto or into soil, drains, sewer, rivers or other water courses.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid skin and eye contact. Wear appropriate personal protective equipment. Avoid breathing vapors. Work in a well-ventilated area. Do not ingest. Safety showers and eyewash stations should be available for use in the immediate work area. Wash hands after using this product, and before eating, drinking smoking or using the lavatory.
Conditions for Safe Storage:	Keep containers tightly closed. Store in well ventilated, cool, dry location, away from direct sunlight and heat sources. Store in approved containers. Do not allow product to freeze. Do not reuse empty containers.
Incompatible Materials:	Strong oxidizers, acids, alkalis

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Exposure Limits for the Product itself have not been established.

Exposure limits for those components with limits are stated below.

Silica, crystalline,α-quartz, CAS RN: 14808-60-7	OSHA – PEL: (30 mg/m ³)/ (%SiO ₂ + 5) – Total dust OSHA – PEL: (10 mg/m ³)/ (%SiO ₂ + 2) – Respirable dust ACGIH – TLV: 0.025 ppm (respirable)
Talc, containing no asbestos fibers, CAS RN: 14807-96-6	OSHA – PEL: 20 mppcf (containing >1% Quartz) ACGIH – TLV: 2 mg/m ³ (respirable) WEEL: 1 ppm; 6 mg/m ³ TWA

ENGINEERING CONTROLS:	Use only with adequate ventilation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) stated above. The use of both general dilution and local exhaust ventilation is recommended to control airborne exposures to mist, vapor, or spray. Do not use in a confined area or areas with little or no air movement.
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PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:	Not required for properly ventilated areas. However, when or if atmospheric levels exceed the exposure guidelines, use a NIOSH approved air-purifying respirator. Use a respirator that has been selected by an industrial hygienist or other technically qualified person for the specific work conditions. If respirators are used, OSHA requires compliance with its respirator program. For situations where atmospheric levels may exceed the level for which an air-purifying respirator is effective, use positive-pressure air-supplying respiratory (air-line or self-contained breathing apparatus).
Hand Protection:	Use gloves chemically resistant to this material, such as Neoprene, Butyl-rubber, and Nitrile rubber. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment.
Eye Protection:	Wear safety glasses with side shields. Chemical safety goggles and face shield should be used if splash hazard exists. Eyewash fountain should be located in the immediate work area.
Skin and Body Protection:	Wear chemical resistant clothing suitable to the job. Long sleeve shirts and trousers without cuffs. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment.
Other:	A hazard assessment should be performed before using this material to determine the appropriate personal protective equipment for the task. Safety shower and eyewash stations should be available in the immediate work area. Do not smoke, eat or drink while using this material. Wash hands after using this material, before eating, drinking, smoking or using the lavatory.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grey viscous liquid
Odor:	Mild
pH	Not established for the product itself.
Odor Threshold:	Not established for the product itself.
Vapor Pressure:	Not established for the product itself.
Vapor Density:	Not established for the product itself.
Flash Point	>484°F (>251°C)
Explosion Limits in Air – Upper (%)	Not established for the product itself.
Explosion Limits in Air – Lower (%)	Not established for the product itself.
OSHA Flammability Classification:	Combustible
Auto-ignition Temperature:	Not established for the product itself.
Decomposition Temperature:	Not established for the product itself.
Initial Boiling Point /Range:	Not established for the product itself.
Melting Point:	Not established for the product itself.
Freezing Point:	Not established for the product itself.
Water Solubility:	Negligible
Specific Gravity:	Not established for the product itself.
Relative Density:	Not established for the product itself.
% Volatile (by Volume):	Not established for the product itself.
Evaporation Rate:	Not established for the product itself.
Partition coefficient: n-octanol/water	Not established for the product itself.
Viscosity:	Not established for the product itself.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended conditions. See section 7.
Hazardous Polymerization:	Will not occur.
Mechanical Sensitivity (shock):	Not applicable.
Conditions to Avoid:	Contact with strong oxidizer, acids, and alkalis.
Hazardous Decomposition and/or Combustion Products:	See section 5.
Static Discharge Effects:	Not applicable.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Skin Contact, Eye Contact

Signs and Symptoms of Exposure: Contact with the skin can be indicated by redness and/or irritation at the sight of exposure.
Contact with the eye(s) is indicated by irritation, redness and watering of the eye(s).

Toxicological data has not been established for the product itself.

Components of this material that have associated toxicological data is provided below.

Acute Toxicity

Oral LD50: No data available on the product itself.
Inhalation LC50: No data available on the product itself.
Dermal LC50: No data available on the product itself.

Serious Eye Damage/Eye Irritation:

No data available on the product itself.

Skin Corrosion/ Irritation:

Mild skin irritation

Respiratory or Skin Sensitization:

No data available on the product itself.

Germ Cell Mutagenicity:

No data available on the product itself.

Carcinogenicity

ACGIH: A component of this product is present at levels greater than or equal to 0.1% has been identified as a suspected human carcinogen by ACGIH. TLV-A2
IARC: A component of this product is present at levels greater than or equal to 0.1% has been identified as carcinogenic to humans by IARC. IARC-1
NTP: A component of this product is present at levels greater than or equal to 0.1% has been identified as known to be a human carcinogen by NTP. NTP-K
OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity:

No data available on the product itself.

Teratogenicity:

No data available on the product itself.

Specific Target Organ Toxicity – Single Exposure:

No data available on the product itself.

Specific Target Organ Toxicity – Repeated Exposure:

No data available on the product itself.

Aspiration Hazard:

No data available on the product itself.

Synergistic Materials:

No data available on the product itself.

12. ECOLOGICAL INFORMATION

Information given is based on data on the components and the toxicology of similar products.

Aquatic Toxicity:

Do not allow spilled material onto or into soil, drains, sewer, rivers or other water courses.

Environmental Fate:

Mobility:	No data available on the product itself.
Bioaccumulation:	No data available on the product itself.
Persistence/Degradability:	No data available on the product itself.
Distribution to Environmental Compartments:	No data available on the product itself.

13. DISPOSAL CONSIDERATIONS

Disposal:

Disposal of this product must be in accordance with all applicable local, state, and federal regulatory requirements. When disposing of waste materials contact and offer to only licensed professional waste disposal services. Do not dispose of used, unused, or wastes into sanitary sewage or storm water drains or systems.

RCRA Classification (40 CFR 261):

Dispose of in accordance with all applicable local, state and federal regulatory requirements.

Unused and Uncontaminated Product:

Dispose of in accordance with all applicable local, state, and federal regulatory requirements.

Disclaimer:

Information in this section pertains to the product as shipped in its intended composition as described in Section 2 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

14. TRANSPORTATION INFORMATION

DOT: Not Regulated

UN Identification Number:	NA
Proper Shipping Name:	NA
Hazard Class:	NA
Packing Group:	NA
Marine Pollutant:	NA
Poison Inhalation Hazard:	NA

IATA: Not Regulated

UN Identification Number:	NA
Proper Shipping Name:	NA
Hazard Class:	NA
Packing Group:	NA

IMDG: Not Regulated

UN Identification Number:	NA
Proper Shipping Name:	NA
Hazard Class:	NA
Packing Group:	NA
Marine Pollutant:	NA

15. REGULATORY INFORMATION

Hazard Classification**OSHA Classification: Hazardous**

Irritant, Skin (Category 2)
Irritant, Eye (Category 2B)
Sensitization, Skin (Category 1A)

International Inventories

All components of this product are listed on or exempt from the following inventories:

- Yes - Australian Inventory of Chemical Substances (AICS)
- Yes - Domestic Substances List (DSL)

- Yes - Chinese Inventory
 Yes - European Inventory of Existing Commercial Substances (EINECS)
 Yes - Japanese Existing and New Chemical Substances (ENCS)
 Yes - Korean Existing Chemicals List (KECL)
 Yes - New Zealand Hazardous Substances and New Organisms Act (HSNO)
 Yes - Philippine Inventory of Chemicals and Chemical Substances (PICCS)
 Yes - United States Toxic Substances Control Act (TSCA) Inventory

A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

U.S. Federal Regulations

TSCA 12(b) Export Notification: None

Clean Air Act amendments of 1990 (CAA, Section 11240: CFR 82): No

Component	CAS #	Amount
NA	NA	NA

Clean Water Act (CWA, 40 CFR 116): No Priority Pollutants

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, 40 CFR 302): Yes

Component	CAS #	RQ
NA	NA	NA

Superfund Amendments and Reauthorization Act, Title III (SARA):

SARA Section 302 (40 CFR 355) Extremely Hazardous Substances: No

Component	CAS #	Amount
NA	NA	NA

SARA Section 311/312 (40 CFR 370) Hazard Category: Acute and Chronic Health Hazards

SARA Section 313 (40 CFR 372) Toxics Release Inventory: Yes

Component	CAS #	Amount
Zinc	7440-66-6	1000 lbs.

U.S. State Regulations

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

Component	CAS #	Amount
NA	NA	NA

16. OTHER INFORMATION

Glossary

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstract Service Number
Ceiling:	Absolute exposure limit that should not be exceeded at any time
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act
GHS:	Globally Harmonized System
HCS:	U.S. Hazard Communications Standard
IARC:	International Agency for Research on Cancer
IATA:	International Air Transportation Association
IDLH:	Immediately Dangerous to Life and Health
IMDG:	International Maritime Dangerous Goods Code
DOT:	U.S. Department of Transportation
OSHA:	Occupational Safety and Health Administration
NTP:	U.S. National Toxicology Program
PEL:	Permissible Exposure Limit – An airborne concentration in which nearly all workers may be repeatedly exposed...without adverse health effects. Establish by OSHA
ppm:	Parts per million
RCRA:	Resource Conservation and Recovery Act

SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit - One time exposure for a duration of 15 minutes, that cannot be repeated more than 4 times per day
TSCA: Toxic Substances Control Act
TLV: Threshold Limit Value - An airborne concentration in which nearly all workers may be repeatedly exposed ... without adverse health effects. Established by US ACGIH
TWA: Time Weighted Average - Average exposure on the basis of a 8h/day, 40h/week work schedule

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General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet