



Safety Data Sheet

SDS ID: Stock Code 400-403, 400-404, 400-405

Revision date: January 26, 2015

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Jomar Copper Anti-Seize/Thread Sealant
Synonyms: None
Chemical family: N/A
Producer: Jomar Group
7243 Miller Drive
Warren, MI 48092

Telephone: 586-268-1220 Available during normal business hours

Emergency: 586-268-1220 Available during normal business hours

Section 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause skin irritation.

Precautionary Statements: Prolonged and repeated contact with the product may cause a defatting of the skin, dermatitis, folliculitis and/or oil acne. Preexisting eye or skin disorders may be aggravated by prolonged contact with this product. See Section 11 for additional toxicological information.

Inhalation: Not an expected route of entry.

Ingestion: This product may be absorbed by the digestive system. Ingestion can result in both acute and chronic overexposure.

Skin contact: May cause irritation.

Eye contact: Contact with eyes may cause eye irritation.

Carcinogenic: N/A

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Material information:

Name	CAS No.	Weight %
Lubricating greases	74869-21-9	50-70
Copper	7440-50-8	7-13
Lime	1305-78-8	1-5

***Note:** The above weight percentages are represented in ranges as estimates. Due to variation among production batches, component percentages may vary.

Section 4. FIRST AID MEASURES

Inhalation: Remove from exposure. Get medical attention if experiencing cough, irritation or difficult breathing.

Skin contact: Wash thoroughly with soap and water. If irritation occurs, get medical attention.

Ingestion: Get immediate medical attention. **DO NOT INDUCE VOMITING!**
Possible aspiration hazard.

Eye contact: Flush with copious amounts of water. Get immediate medical attention.

Notes to Physician: The hydrocarbons contained in this product are mild irritants of the eyes and mucous membranes, central nervous system depressants, and primary chemical irritants of the skin. Prolonged or repeated skin contact, especially with poor personal hygiene, may cause skin disorders.

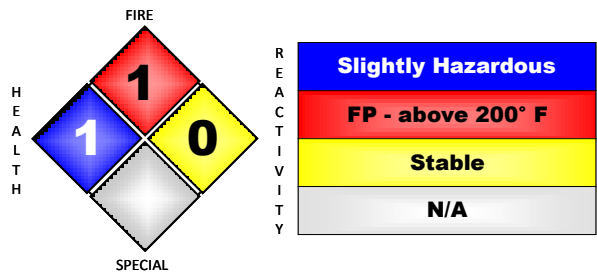
Section 5. FIREFIGHTING MEASURES

Suitable for extinguishing media: Dry chemical, water fog, foam or carbon dioxide may be suitable extinguishing fires involving this product.

Specific hazards: Combustion products are highly dependent on the combustion conditions. CO, CO₂, CaO, oxygenates and unidentified organic compounds may be formed during combustion. High temperatures may produce metal fume, vapor, and/or dust. Combustion products may cause effects of overexposure as noted in Section 2 Hazards Identification. They may also cause headache; dizziness; coma; convulsion; weakness; drowsiness; tachypnea; nausea; paresthesia; dyspnea; asphyxiation; mild to severe eye, skin or respiratory tract irritation; metal fume fever; metallic taste in mouth; cough; pneumonia; pneumoconiosis; ulceration or perforation of the nasal septum and/or lung damage. Product fume and/or vapor may be irritating or toxic if inhaled. The product or its dust, can react vigorously with strong oxidizing agents.

Special protective equipment and precautions for firefighters: Use full-body protection and full-face, self-contained breathing apparatus operated in a positive pressure mode. Use water spray (fog) to cool containers and disperse vapors.

	NFPA rating:	HMIS rating:
Health:	1	1
Flammability:	1	1
Instability/reactivity:	0	0
Other:	N/A	B (PPE)





Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with the skin and the eyes.
Large Spill:	Keep petroleum products out of streams and waterways. Assure conformity with applicable government regulations.
Methods for Containment and Clean up	Clean area with an appropriate cleanser.

Section 7. HANDLING AND STORAGE

Handling:	The two major means of metal absorption are inhalation and ingestion. After use, always wash hands before smoking, eating, or drinking. Smoking, eating, and drinking should be confined to uncontaminated areas. Work clothes and equipment should remain in designated areas. Before reuse, launder contaminated clothing separate from personal clothing. Avoid skin contact and use personal protection when handling product, waste product, or contaminated equipment. Wash with soap and water after use. Prolonged and repeated contact can cause defatting action of the skin and may cause disorders such as dermatitis, folliculitis, and oil acne. This product is intended for industrial use only. Isolate from children and their environment. This product may separate. Stir well before use. The flash point of this product depends on the degree of separation.
Storage:	Store in a cool, dry area where accidental contact with acids is not possible. Do not store or handle near high temperature or open flame. Keep storage containers closed when not in use.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Name	CAS No.	ACGIH® TLV® Exposure Limits:	Federal OSHA PELs	OSHA PELs 1989
Copper	7440-50-8	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	N/A	0.1
Lime	1305-78-8	TWA: 2 mg/m ³	N/A	5

All exposure limits listed are 8-hour time weighted average (TWA) — except where noted otherwise.

Time Weighted Average (TWA) is an average exposure over the course of an 8-hour work shift. A Short Term Exposure Limit TWA over the course of 15 minutes.



PEL — Permissible Exposure Limit is the maximum 8-hour TWA concentration of a chemical that a worker may be exposed to under Occupational Safety and Health Administration (OSHA) regulations. Federal OSHA 1989 PELs were vacated but are in use and enforced by many state OSHA plans.

Engineering measures: No special ventilation requirements under conditions of normal use.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: No respiratory equipment is required for normal use.

Skin and body protection: Clothing appropriate for an industrial environment should be worn.

Eye protection: Vented goggles or safety glasses with side shields.

Hygiene measures: When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Wash hands immediately after handling the product.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Copper-black
Physical state (solid/liquid/gas):	Solid
Substance type (pure/mixture):	Mixture
Color:	Copper-black
Odor:	Petroleum odor
Molecular weight:	Not available
pH:	Not applicable
Boiling point/range (5-95%):	228°C / 550°F
Melting point/range:	Not available
Decomposition temperature:	Not available
Specific gravity:	1.2
Vapor density:	(AIR = 1) >1
Vapor pressure:	Not available
Evaporation rate (Butyl acetate= 1):	<1
Flash point, method used:	196°C / 385°F, ASTM D 92, C.O.C.
Water solubility:	Negligible
VOC Content:	Not available
Auto-ignition temperature:	Not available
Flammable limits in air — lower (%):	Not available
Flammable limits in air — upper (%):	Not available

Section 10. STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	Not applicable
Possibly hazardous reactions:	Not applicable
Conditions to avoid:	Not applicable
Incompatible Materials:	Strong oxidizers or acids.



Hazardous decomposition products: Under normal temperatures this product will not decompose

Polymerization: Will not occur.

Section 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Product may cause irritation to the eyes and/or skin. Ingestion of the product may cause gastrointestinal irritation and upset.

Product information:

Name	CAS No.	Inhalation:	Dermal:	Oral: LD ₅₀
Lubricating greases	74869-21-9			2280 mg/kg (Rat)
Lime	1305-78-8			500 mg/kg (Rat)

LD₅₀ — The concentration of the chemical in air that kills 50% of the test animals in a given time (usually four hours).

Chronic toxicity: Passes IP 346 Method <3% DMSO – extractable components.

Section 12. ECOLOGICAL INFORMATION

Component	Freshwater Algae	Freshwater Fish	Water Flea
Lubricating greases		LC50> 2000 mg/L Salmo gairdneri 96h	
Copper	EC50 = 120 mg/L 72 h	LC50 .0068 -0.0156 mg/L Pimephales promelas 96 h LC50< 0.3 mg/L Pimephales promelas 96 h LC50= 0.052 mg/L Oncorhynchus mykiss 96 h LC50= 0.112 mg/L Poecilia reticulata 96 h LC50= 0.2 mg/L Pimephales promelas 96 h LC50= 0.3 mg/L Cyprinus carpio 96 h LC50= 0.8 mg/L Cyprinus carpio 96 h LC50= 1.25 mg/Lepomis macrochirus 96 h	EC50 = 0.03 mg/L 48 h
Lime		LC50= 1070 mg/L Cyprinus carpio 96 h	

Section 13. DISPOSAL CONSIDERATIONS

Cleanup considerations: Discard in accordance with local, state, and federal regulations. Empty containers are exempt from RCRA Subtitle C if they contain no more than 2.5 cm of their original contents in the bottom of the container or less than 3% of the original net weight (less than 0.3% by weight for containers over 110 gallons), or if the residue is analyzed and demonstrated to be nonhazardous.



"Empty" containers retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY AND/OR DEATH. "Empty" containers should be completely drained and properly sealed. Recycle or discard plastic liner, pail or drum in accordance with local, state, and federal regulations. "Empty" drums may be sent to a drum reconditioner.

Section 14. TRANSPORT INFORMATION

DOT Not regulated by Ground unless it is being shipped by vessel, then it may be classified on documentation as UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII, Marine Pollutant. (Prepared in compliance with IMDG).

TDG Not regulated by Ground unless it is being shipped by vessel, then it may be classified on documentation as UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII, Marine Pollutant.

IATA UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII.

IMDG/IMO UN3077, Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII, Marine Pollutant.

Section 15. REGULATORY INFORMATION

Component	TSCA	DSL	NDSL	EINECS/ELINCS	ENC S	CHINA	KECL	PICCS	AICS
Lubricating greases				278-011-7		X		X	
Copper	Present	X		231-159-6		X		X	X
Lime	Present	X		215-138-9	X	X		X	X

U.S Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Chronic Health Hazard Yes
 Acute Health Hazard Yes
 Fire Hazard No
 Sudden Release of Pressure Hazard No



Reactive Hazard

No

CERCLA

Copper Hazardous Substances RQs = 5000

U.S State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

Section 16. OTHER INFORMATION

Standards and Certification Listings:

The information and recommendations contained herein are based upon tests, data, and information resources believed to be reliable. However, the Jomar Group and its related operations or divisions do not guarantee the accuracy or completeness, nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of goods, the merchantability of the goods or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. Jomar Group assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.