



SAFETY DATA SHEET

Conforms to HazCom 2012/United States

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER	Anti Seize Lube
SDS NUMBER:	L808
PART NUMBER:	L808
TARIFF CODE:	2710.19.4000
RECOMMENDED USE:	Lubricant
RECOMMENDED RESTRICTIONS:	Non known
SUPPLIER:	Blumenthal Brands Integrated (BBI) 600 Radiator Road Indian Trail, NC 28079 USA Customer Service: (704) 821-7643 Technical: (704) 821-7643
WEBSITE	www.solvewithB.com
E-MAIL	sds@solvewithB.com
EMERGENCY PHONE:	Poison Control (RMPDC) (303) 623-5716 Poison Control (RMPDC) (877) 740-5015

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 2

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS:



SIGNAL WORD: Warning

HAZARD STATEMENTS: Very toxic to aquatic life.
Toxic to aquatic life with long-lasting effects.

PRECAUTIONARY STATEMENTS

PREVENTION: Avoid release to the environment.

RESPONSE: Collect spillage.

STORAGE: Not applicable.

DISPOSAL: Dispose of contents and container in accordance with all local, regional, national and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: Mixture.
OTHER MEANS OF IDENTIFICATION: Not available.

CAS NUMBER/OTHER IDENTIFIERS

CAS NUMBER: Not applicable.

PRODUCT CODE: L808

INGREDIENT NAME:	%	CAS NUMBER
Copper	5 – 15	7440-50-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SKIN CONTACT: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

MOST IMPORTANT SYMPTOMS/EFFECTS (ACUTE AND DELAYED)

POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT: No known significant effects or critical hazards.
INHALATION: No known significant effects or critical hazards.
SKIN CONTACT: No known significant effects or critical hazards.
INGESTION: No known significant effects or critical hazards.

OVER-EXPOSURE SIGNS/SYMPTOMS

EYE CONTACT: No known significant effects or critical hazards.
INHALATION: No known significant effects or critical hazards.
SKIN CONTACT: No known significant effects or critical hazards.
INGESTION: No known significant effects or critical hazards.

SECTION 4: FIRST AID MEASURES (CONTINUED)

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES TO PHYSICIAN:	Treat symptomatically.
SPECIFIC TREATMENTS:	No specific treatment.
PROTECTION OF FIRST-AIDERS:	No special protection is required.

See toxicological information (Section 11)

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA: Use dry chemical, CO₂, water spray (fog) or foam.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Decomposition products may include the following materials:
Carbon dioxide
Carbon monoxide
Halogenated compounds
Metal oxide/oxides

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: No special measures are required.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

FOR NON-EMERGENCY PERSONNEL: Put on appropriate personal protective equipment.

FOR EMERGENCY RESPONDERS: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

ENVIRONMENTAL PRECAUTIONS: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

SMALL SPILL: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

LARGE SPILL: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

PROTECTIVE MEASURES: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT NAME:	EXPOSURE LIMITS:
Copper	ACGIH TLV (United States, 3/2012). TWA: 1 mg/m ³ (as Cu) 8 hours. Form: Dust and Mist TWA: 0.2 mg/m ³ 8 hours. Form: Fume OSHA PEL (United States, 6/2010). TWA: 1 mg/m ³ 8 hours. Form: Dusts and Mists TWA: 0.1 mg/m ³ 8 hours. Form: Fume NIOSH REL (United States, 1/2013). TWA: 1 mg/m ³ (as Cu) 10 hours. Form: Dusts and Mists

APPROPRIATE ENGINEERING CONTROLS: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

INDIVIDUAL PROTECTION MEASURES

HYGIENE MEASURES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

EYE/FACE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

SKIN PROTECTION

HAND PROTECTION: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

BODY PROTECTION: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

OTHER SKIN PROTECTION: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RESPIRATORY PROTECTION: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

PHYSICAL STATE:	Semi-solid.
COLOR:	Copper [Dark.]
ODOR:	Petroleum.
ODOR THRESHOLD:	Not available.
pH:	Not available.
MELTING POINT:	Not available.
BOILING POINT:	Not available.
FLASH POINT:	Open Cup: 232.22 °C (450 °F) [Cleveland.]
BURNING TIME:	Not available.
BURNING RATE:	Not available.
EVAPORATION RATE:	Not available.
FLAMMABILITY (SOLID, GAS):	Not available.
LOWER AND UPPER EXPLOSIVE (FLAMMABLE) LIMITS:	Not available.
VAPOR PRESSURE:	Not available.
VAPOR DENSITY:	Not available.
RELATIVE DENSITY:	1.05 g/ml
SOLUBILITY:	Insoluble in water.
PARTITION COEFFICIENT: N-OCTANOL/WATER:	Not available.
AUTO-IGNITION TEMPERATURE:	Not available.
DECOMPOSITION TEMPERATURE:	Not available.
SADT:	Not available.
VISCOSITY:	Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	No specific test data related to reactivity available for this product or its ingredients.
CHEMICAL STABILITY:	The product is stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Under normal conditions of storage and use, hazardous reactions will not occur.
CONDITIONS TO AVOID:	Do not heat above flash point.
INCOMPATIBLE MATERIALS:	Reactive or incompatible with the following materials: Oxidizing materials Acids Alkalis
HAZARDOUS DECOMPOSITION PRODUCTS:	Under normal conditions of storage and use, hazardous decompositions products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:	There is no data available.
IRRITATION/CORROSION:	There is no data available.
SENSITIZATION:	There is no data available.
MUTAGENICITY:	There is no data available.
CARCINOGENICITY:	There is no data available.
REPRODUCTIVE TOXICITY:	There is no data available.
TERATOGENICITY:	There is no data available.
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):	There is no data available.

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): There is no data available.

ASPIRATION HAZARD: There is no data available.

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: Dermal contact. Eye contact. Inhalation. Ingestion.

POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT: No known significant effects or critical hazards.

INHALATION: No known significant effects or critical hazards.

SKIN CONTACT: No known significant effects or critical hazards.

INGESTION: No known significant effects or critical hazards.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS

EYE CONTACT: No known significant effects or critical hazards.

INHALATION: No known significant effects or critical hazards.

SKIN CONTACT: No known significant effects or critical hazards.

INGESTION: No known significant effects or critical hazards.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE

SHORT-TERM EXPOSURE:

POTENTIAL IMMEDIATE EFFECTS: No known significant effects or critical hazards.

POTENTIAL DELAYED EFFECTS: No known significant effects or critical hazards.

LONG-TERM EXPOSURE:

POTENTIAL IMMEDIATE EFFECTS: No known significant effects or critical hazards.

POTENTIAL DELAYED EFFECTS: No known significant effects or critical hazards.

POTENTIAL CHRONIC HEALTH EFFECTS

GENERAL: No known significant effects or critical hazards.

CARCINOGENICITY: No known significant effects or critical hazards.

MUTAGENICITY: No known significant effects or critical hazards.

TERATOGENICITY: No known significant effects or critical hazards.

DEVELOPMENTAL EFFECTS: No known significant effects or critical hazards.

FERTILITY EFFECTS: No known significant effects or critical hazards.

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

ROUTE:	ATE VALUE
Oral	108965.5 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
Copper	Acute EC50 1100 µg/l Fresh water	Aquatic plants – Lemna minor	4 days
	Acute EC50 2.1 µg/l Fresh water	Daphnia – Daphnia longispina – Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute IC50 13 µg/l Fresh water	Algae – Pseudokirchneriella subcapitata – Exponential growth phase	72 hours
	Acute IC50 5.4 ml/L Marine water	Aquatic plants – Plantae – Exponential growth phase	72 hours
	Acute LC50 0.072 µg/l Marine water	Crustaceans – Amphipoda – Adult Fish	48 hours
	Acute LC50 7.56 µg/l Marine water	Perlophthalmus waltoni – Adult Algae	96 hours
	Chronic NOEC 2.5 µg/l Marine water	Nitzschia closterium – Exponential growth phase	72 hours
	Chronic NOEC 7 mg/L Fresh water	Aquatic plants – Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/L Fresh water	Crustaceans – Cambarus bartonii – Mature	21 days

SECTION 12: ECOLOGICAL INFORMATION (CONTINUED)

(Continued)

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
	Chronic NOEC 2 µg/l Fresh water	Daphnia – Daphnia magna	21 days
	Chronic NOEC 0.8 µg/l Fresh water	Fish – Oreochromis niloticus – Juvenile (Fledgling, Hatchling, Weanling)	6 weeks

PERSISTENCE AND DEGRADABILITY: There is no data available.
BIOACCUMULATIVE POTENTIAL: There is no data available.
MOBILITY IN SOIL:
SOIL/WATER PARTITION COEFFICIENT (K_{oc}): Not available.
OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	DOT CLASSIFICATION	IMDG	IATA
UN NUMBER:	UN3077	UN3077	UN3077
UN PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper). Marine pollutant (Copper)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper). Marine pollutant (Copper)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)
TRANSPORT HAZARD CLASS(ES):	9	9	9
PACKING GROUP:	III	III	III
ENVIRONMENTAL HAZARDS:	Yes.	Yes.	Yes.
ADDITIONAL INFORMATION:	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

AERG: Not applicable.

SPECIAL PRECAUTIONS FOR USER:

Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

Not available.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA 8(a) CDR EXEMPT/PARTIAL EXEMPTION: Not determined.
UNITED STATES INVENTORY (TSCA 8b): All components are listed or exempted.
CLEAN WATER ACT (CWA) 307: Copper.

CLEAN AIR ACT SECTION 112(b) HAZARDOUS AIR POLLUTANTS (HAPs): Listed.

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCES: Not listed.

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES: Not listed.

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS): Not listed.

DEA LIST II CHEMICALS (ESSENTIAL CHEMICALS): Not listed.

SARA 302/304

COMPOSITION/INFORMATION ON INGREDIENTS: No products were found.
SARA 304 RQ: Not applicable.

SARA 311/312

CLASSIFICATION: Not applicable.
COMPOSITION/INFORMATION ON INGREDIENTS: No products were found.

SARA 313

	PRODUCT NAME:	CAS NUMBER:	%
FORM R – REPORTING REQUIREMENTS:	Copper	7440-50-8	5 – 15
	Aluminum	7429-90-5	1 – 10
SUPPLIER NOTIFICATION:	Copper	7440-50-8	5 – 15
	Aluminum	7429-90-5	1 – 10

SARA 313 notifications must not be detached from the SDS; and, any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

STATE REGULATIONS

MASSACHUSETTS: The following components are listed:
Graphite, natural
Copper
Aluminum
Magnesium Silicate

NEW YORK: The following components are listed:
Copper

NEW JERSEY: The following components are listed:
Distillates (petroleum), hydro-treated heavy paraffinic
Graphite, natural
Copper
Distillates (petroleum), hydro-treated heavy naphthenic
Aluminum
Magnesium Silicate

PENNSYLVANIA: The following components are listed:
Graphite, natural
Copper
Aluminum

CALIFORNIA PROP. 65 No products were found.

INTERNATIONAL REGULATIONS

