



# MATERIAL SAFETY DATA SHEET

165-025

## 1. Product and Company Identification

**Product Identifier** LPS® Copper Anti-Seize  
**Version #** 01  
**Issue date** 04-14-2015  
**Supersedes date** 04-13-2015  
**CAS #** Mixture  
**Part Number** 02908, 02910, C02908, C02910  
**Product use** A low-friction anti-seize lubricant designed to prevent seizure and galling and resist settling and hardening of welding.  
**Manufacturer information** ITW Pro Brands  
 4647 Hugh Howell Rd  
 Tucker, GA 30084  
 United States  
 lpssds@itwprobrands.com  
 www.lpslabs.com  
 1-800-241-8334 / 770-243-8800  
 Chemtrec 1-800-424-9300  
**Supplier** Not available.

## 2. Hazards Identification

**Emergency overview** WARNING  
 May be irritating to eyes. May be irritating to the skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**Potential health effects**  
**Routes of exposure** Skin contact. Eye contact. Ingestion.  
**Eyes** Contact with eyes may cause irritation. Avoid contact with eyes.  
**Skin** May cause skin irritation. Avoid contact with the skin.  
**Inhalation** Health injuries are not known or expected under normal use.  
**Ingestion** Irritating. May cause nausea, stomach pain and vomiting.  
**Signs and symptoms** Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort.  
**Potential environmental effects** Components of this product are hazardous to aquatic life.

## 3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
Copper	7440-50-8	3 - 8

## 4. First Aid Measures

**First aid procedures**  
**Inhalation** Move to fresh air. Get medical attention, if needed.  
**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.  
**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.  
**Ingestion** Rinse mouth. Get medical attention if symptoms occur.  
**General advice** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire Fighting Measures

**Flammable properties** Not flammable by WHMIS criteria.

<b>Extinguishing media</b>	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Not available.
<b>Protection of firefighters</b>	
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Fire fighting equipment/instructions</b>	Use water spray to cool unopened containers.
<b>Explosion data</b>	
Sensitivity to static discharge	None known.
Sensitivity to mechanical impact	None known.
<b>Hazardous combustion products</b>	May include oxides of carbon.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas.
<b>Methods for cleaning up</b>	Should not be released into the environment. Dike far ahead of spill for later disposal. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.
<b>Other information</b>	Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

<b>Handling</b>	Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. When using do not eat or drink. Do not use in areas without adequate ventilation. Wash thoroughly after handling. Avoid release to the environment.
<b>Storage</b>	Store in a closed container away from incompatible materials. Keep out of the reach of children. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the MSDS).

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
COPPER, ELEMENTAL (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
COPPER, ELEMENTAL (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
COPPER, ELEMENTAL (CAS 7440-50-8)	TWA	0.2 mg/m3	Fume.

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value	Form
COPPER, ELEMENTAL (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
COPPER, ELEMENTAL (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Hand protection**

Wear appropriate chemical resistant gloves.

**9. Physical & Chemical Properties**

**Appearance**

**Physical state**

Solid.

**Form**

Paste.

**Color**

Copper, Bronze

**Odor**

Slight petroleum odor

**Odor threshold**

Not available.

**pH**

Not available.

**Vapor pressure**

Not available.

**Vapor density**

Not available.

**Boiling point**

> 500 °F (> 260 °C)

**Melting point/Freezing point**

> 449.6 °F (> 232 °C)

**Solubility (water)**

Insoluble in water

**Specific gravity**

Not available.

**Relative density**

1.09

**Flash point**

> 429.8 °F (> 221.0 °C) Open Cup

**Flammability limits in air, upper, % by volume**

Not available.

**Flammability limits in air, lower, % by volume**

Not available.

**Auto-ignition temperature**

Not available.

**VOC**

None

**Evaporation rate**

Not available.

**Partition coefficient (n-octanol/water)**

Not available.

**Other data**

**Flammability (solid, gas)**

Not available.

**10. Chemical Stability & Reactivity Information**

**Chemical stability**

Material is stable under normal conditions.

<b>Conditions to avoid</b>	Heat, flames and sparks. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Vinyl acetate.
<b>Hazardous decomposition products</b>	None known.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Toxicological data

Components	Species	Test Results
Copper (CAS 7440-50-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	> 2.77 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	481 mg/kg
<b>Acute effects</b>	Expected to be a low hazard for usual industrial or commercial handling by trained personnel.	
<b>Sensitization</b>	Not classified.	
<b>Chronic effects</b>	None known.	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious eye damage/irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Reproductive effects</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Teratogenicity</b>	Not available.	
<b>Symptoms and target organs</b>	Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.	
<b>Synergistic materials</b>	Not available.	
<b>Further information</b>	This product has no known adverse effect on human health.	

## 12. Ecological Information

### Ecotoxicological data

Components	Species	Test Results
Copper (CAS 7440-50-8)		
<b>Aquatic</b>		
Crustacea	EC50 Water flea ( <i>Daphnia magna</i> )	0.036 mg/l, 48 hours
Fish	LC50 Fathead minnow ( <i>Pimephales promelas</i> )	0.0319 - 0.0544 mg/l, 96 hours
<b>Ecotoxicity</b>	Very toxic to aquatic life with long lasting effects.	
<b>Environmental effects</b>	Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
<b>Aquatic toxicity</b>	Very toxic to aquatic organisms.	
<b>Persistence and degradability</b>	Not available.	
<b>Other adverse effects</b>	None known.	

## 13. Disposal Considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport Information****TDG**

**UN number** UN3077  
**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards** Yes  
**Special precautions for user** Read safety instructions, MSDS and emergency procedures before handling.

**IATA**

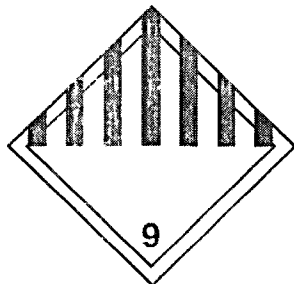
**UN number** UN3077  
**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (Copper)  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards** Yes  
**ERG Code** 9L  
**Special precautions for user** Read safety instructions, MSDS and emergency procedures before handling.

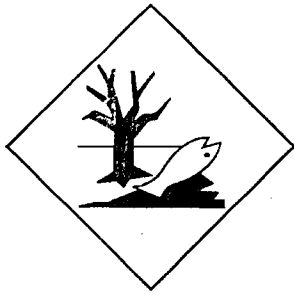
**Other information**

**Passenger and cargo aircraft** Allowed.  
**Cargo aircraft only** Allowed.

**IMDG**

**UN number** UN3077  
**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper), MARINE POLLUTANT  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-A, S-F  
**Special precautions for user** Read safety instructions, MSDS and emergency procedures before handling.

**IATA; IMDG; TDG**



## 15. Regulatory Information

### Canadian regulations

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

### WHMIS status

Non-controlled

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply 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).

## 16. Other Information

### Disclaimer

ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

### Prepared by

Not available.

### This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification  
Other Information: Disclaimer