



# SAFETY DATA SHEET

## 1. Identification

|   |   |
|---|---|
| <b>Product identifier</b>                                     | <b>LPS® Copper Anti-Seize</b>   |
| <b>Other means of identification</b>                          |   |
| <b>Part Number</b>  | 02908, 02910, C02908, C02910  |
| <b>Recommended use</b>  | A low-friction anti-seize lubricant designed to prevent seizure and galling and resist settling and hardening of welding. |
| <b>Recommended restrictions</b>                               | None known.   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |
| <b>Manufacturer</b>   |   |
| <b>Company name</b>   | ITW Pro Brands  |
| <b>Address</b>  | 4647 Hugh Howell Rd.<br>Tucker, GA 30084  |
| <b>Country</b>  | (U.S.A.)<br>Tel: +1 770-243-8800  |
| <b>In Case of Emergency</b>                                   | 1-800-424-9300<br>1-703-527-3887  |
| <b>Website</b>  | www.lpslabs.com   |
| <b>E-mail</b>   | lpssds@itwprobrands.com   |
| <b>Supplier</b>   | ITW Permatex Canada<br>1-35 Brownridge Road<br>Halton Hills, ON, L7G 0C6<br>Canada<br>1-800-241-8334                      |

## 2. Hazard(s) identification

|                                 |  |
|---------------------------------|--|
| <b>Physical hazards</b>         | Not classified.  |
| <b>Health hazards</b>           | Not classified.  |
| <b>Environmental hazards</b>    | Not classified.  |
| <b>Label elements</b>           |  |
| <b>Hazard symbol</b>            | None.  |
| <b>Signal word</b>              | None.  |
| <b>Hazard statement</b>         | The mixture does not meet the criteria for classification.                     |
| <b>Precautionary statement</b>  |  |
| <b>Prevention</b>               | Observe good industrial hygiene practices.                                     |
| <b>Response</b>                 | Wash hands after handling.   |
| <b>Storage</b>                  | Store away from incompatible materials.  |
| <b>Disposal</b>                 | Dispose of waste and residues in accordance with local authority requirements. |
| <b>Other hazards</b>            | None known.  |
| <b>Supplemental information</b> | None.  |

## 3. Composition/information on ingredients

### Mixtures

| <b>Chemical name</b> | <b>Common name and synonyms</b> | <b>CAS number</b> | <b>%</b> |
|----------------------|---------------------------------|-------------------|----------|
| COPPER, ELEMENTAL    |                                 | 7440-50-8         | 3 - 8    |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Move to fresh air. Call a physician if symptoms develop or persist. |
|-------------------|---|

|   |  |
|---|--|
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops and persists.                         |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.                                     |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                          | Use water spray to cool unopened containers.  |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

## 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>               | Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.  |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Avoid prolonged exposure. Observe good industrial hygiene practices.  |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components                           | Type | Value                 | Form           |
|--------------------------------------|------|-----------------------|----------------|
| COPPER, ELEMENTAL<br>(CAS 7440-50-8) | TWA  | 1 mg/m <sup>3</sup>   | Dust and mist. |
|                                      |      | 0.2 mg/m <sup>3</sup> | Fume.          |

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

| Components                           | Type | Value                 | Form           |
|--------------------------------------|------|-----------------------|----------------|
| COPPER, ELEMENTAL<br>(CAS 7440-50-8) | TWA  | 1 mg/m <sup>3</sup>   | Dust and mist. |
|                                      |      | 0.2 mg/m <sup>3</sup> | 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<br>(CAS 7440-50-8) | TWA  | 1 mg/m <sup>3</sup>   | Dust and mist. |
|                                      |      | 0.2 mg/m <sup>3</sup> | Fume.          |

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

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

**Biological limit values**

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

**Appropriate 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.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection****Hand protection**

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other**

Wear suitable protective clothing.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance****Physical state**

Solid.

**Form**

Paste.

**Color**

Copper, Bronze.

**Odor**

Slight petroleum odor

**Odor threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

> 449.6 °F (> 232 °C)

**Initial boiling point and boiling range**

> 500 °F (> 260 °C)

**Flash point**

> 429.8 °F (> 221.0 °C) Open Cup

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

Not applicable.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

Not available.

**Flammability limit - upper (%)**

Not available.

**Explosive limit - lower (%)**

Not available.

**Explosive limit - upper (%)**

Not available.

**Vapor pressure**

Not available.

**Vapor density**

Not available.

|  |                    |
|--|--------------------|
| <b>Relative density</b>                        | 1.09               |
| <b>Solubility(ies)</b>                         |                    |
| <b>Solubility (water)</b>                      | Insoluble in water |
| <b>Partition coefficient (n-octanol/water)</b> | Not available.     |
| <b>Auto-ignition temperature</b>               | Not available.     |
| <b>Decomposition temperature</b>               | Not available.     |
| <b>Viscosity</b>                               | Not available.     |
| <b>Other information</b>                       |                    |
| <b>Explosive properties</b>                    | Not explosive.     |
| <b>Oxidizing properties</b>                    | Not oxidizing.     |
| <b>VOC</b>                                     | None               |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | Carbon oxides.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful.                     |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected.     |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.                   |

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

| Components                        | Species | Test Results           |
|-----------------------------------|---------|------------------------|
| COPPER, ELEMENTAL (CAS 7440-50-8) |         |                        |
| <b>Acute</b>                      |         |                        |
| <b>Dermal</b>                     |         |                        |
| LD50                              | Rat     | > 2000 mg/kg, 24 Hours |
| <b>Inhalation</b>                 |         |                        |
| LC50                              | Rat     | > 5.11 mg/l, 4 Hours   |
| <b>Oral</b>                       |         |                        |
| LD50                              | Rat     | 481 mg/kg              |

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization

|                                  |   |
|----------------------------------|---|
| <b>Respiratory sensitization</b> | Not a respiratory sensitizer.                             |
| <b>Skin sensitization</b>        | This product is not expected to cause skin sensitization. |

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

|   |   |
|---|---|
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.                             |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.                             |
| <b>Aspiration hazard</b>                                  | Not likely, due to the form of the product. |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful.        |
| <b>Further information</b>                                | None known.                                 |

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Components                        | Species | Test Results  |
|-----------------------------------|---------|---|
| COPPER, ELEMENTAL (CAS 7440-50-8) |         |   |
| <b>Aquatic</b>                    |         |   |
| Crustacea                         | EC50    | Water flea (Daphnia magna) 0.036 mg/l, 48 hours                     |
| Fish                              | LC50    | Fathead minnow (Pimephales promelas) 0.0319 - 0.0544 mg/l, 96 hours |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** None known.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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

## 14. Transport information

|                                     |  |
|-------------------------------------|--|
| <b>TDG</b>                          |  |
| <b>UN number</b>                    | UN3077   |
| <b>UN proper shipping name</b>      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER, ELEMENTAL), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>                        | 9  |
| <b>Subsidiary risk</b>              | -  |
| <b>Packing group</b>                | III  |
| <b>Environmental hazards</b>        | Yes  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling.                  |

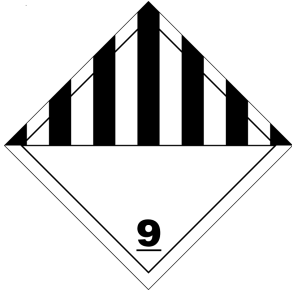
### IATA

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN3077  |
| <b>UN proper shipping name</b>      | Environmentally hazardous substance, solid, n.o.s. (COPPER, ELEMENTAL)  |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 9   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | III   |
| <b>Environmental hazards</b>        | Yes   |
| <b>ERG Code</b>                     | 9L  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>            |   |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.  |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.  |

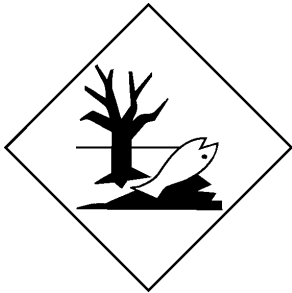
## IMDG

|   |  |
|---|--|
| <b>UN number</b>  | UN3077   |
| <b>UN proper shipping name</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER, ELEMENTAL), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>  | 9  |
| <b>Subsidiary risk</b>  | -  |
| <b>Packing group</b>  | III  |
| <b>Environmental hazards</b>  |  |
| <b>Marine pollutant</b>   | Yes  |
| <b>EmS</b>  | F-A, S-F   |
| <b>Special precautions for user</b>   | Read safety instructions, SDS and emergency procedures before handling.                  |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.  |

## IATA; IMDG; TDG



## Marine pollutant



**General information**                      IMDG Regulated Marine Pollutant.

## 15. Regulatory information

### Canadian regulations

#### **Controlled Drugs and Substances Act**

Not regulated.

#### **Export Control List (CEPA 1999, Schedule 3)**

Not listed.

#### **Greenhouse Gases**

Not listed.

#### **Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)**

COPPER, ELEMENTAL (CAS 7440-50-8)

#### **Precursor Control Regulations**

Not regulated.

### International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**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**

**Issue date** 07-19-2016

**Version #** 01

**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.

**Revision information** Product and Company Identification: Product and Company Identification  
 Composition / Information on Ingredients: Ingredients  
 Physical & Chemical Properties: Multiple Properties  
 Transport Information: Material Transportation Information  
 Regulatory Information: Risk Phrases - Labeling  
 HazReg Data: North America  
 GHS: Classification