



# 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  |
| <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>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 (inside U.S.)<br>+001 703-527-3887 (outside U.S.)  |
| <b>Website</b>  | www.lpslabs.com   |
| <b>E-mail</b>   | lpssds@itwprobrands.com   |

## 2. Hazard(s) identification

|  |  |
|--|--|
| <b>Physical hazards</b>                          | Not classified.  |
| <b>Health hazards</b>                            | Not classified.  |
| <b>Environmental hazards</b>                     | Not classified.  |
| <b>OSHA defined 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>Hazard(s) not otherwise classified (HNOC)</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               |                                 | 7440-50-8         | 1 - 5    |

## 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.  |
| <b>Methods and materials for containment and cleaning up</b>               | This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. |
| <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.                          |

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

| Components                        | Type | Value                 | Form                 |
|-----------------------------------|------|-----------------------|----------------------|
| Calcium Carbonate (CAS 1317-65-3) | PEL  | 5 mg/m <sup>3</sup>   | Respirable fraction. |
| Copper (CAS 7440-50-8)            | PEL  | 15 mg/m <sup>3</sup>  | Total dust.          |
|                                   |      | 1 mg/m <sup>3</sup>   | Dust and mist.       |
|                                   |      | 0.1 mg/m <sup>3</sup> | Fume.                |

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components                                  | Type | Value                 | Form        |
|---|------|-----------------------|-------------|
| Magnesium Silicate Hydrate (CAS 14807-96-6) | TWA  | 0.1 mg/m <sup>3</sup> | Respirable. |
|   |      | 20 mppcf              |             |
|   |      | 2.4 mppcf             | Respirable. |

#### US. ACGIH Threshold Limit Values

| Components                                  | Type | Value                 | Form                 |
|---|------|-----------------------|----------------------|
| Copper (CAS 7440-50-8)                      | TWA  | 1 mg/m <sup>3</sup>   | Dust and mist.       |
|   |      | 0.2 mg/m <sup>3</sup> | Fume.                |
| Magnesium Silicate Hydrate (CAS 14807-96-6) | TWA  | 2 mg/m <sup>3</sup>   | Respirable fraction. |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                                  | Type | Value                 | Form           |
|---|------|-----------------------|----------------|
| Calcium Carbonate (CAS 1317-65-3)           | TWA  | 5 mg/m <sup>3</sup>   | Respirable.    |
| Copper (CAS 7440-50-8)                      | TWA  | 10 mg/m <sup>3</sup>  | Total          |
|   |      | 1 mg/m <sup>3</sup>   | Dust and mist. |
|   |      | 0.1 mg/m <sup>3</sup> | Fume.          |
| Magnesium Silicate Hydrate (CAS 14807-96-6) | TWA  | 2 mg/m <sup>3</sup>   | Respirable.    |

**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**

Not available.

**Initial boiling point and boiling range**

Not available.

**Flash point**

419.2 °F (215.1 °C) Cleveland 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.

**Relative density**

1.21 g/ml

**Solubility(ies)****Solubility (water)**

Insoluble in water

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

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. Acids. Alkalies.   |
| <b>Hazardous decomposition products</b>   | Carbon oxides. Halogenated materials.   |

## 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 (CAS 7440-50-8)  |         |                        |
| <b>Acute</b>  |         |                        |
| <b>Dermal</b>   |         |                        |
| LD50  | Rat     | > 2000 mg/kg, 24 Hours |
| <b>Oral</b>   |         |                        |
| LD50  | Rat     | 300 - 500 mg/kg        |
| Distillates, Petroleum, Solvent-refined Heavy Naphthenic (CAS 64741-96-4) |         |                        |
| <b>Acute</b>  |         |                        |
| <b>Dermal</b>   |         |                        |
| LD50  | Rabbit  | > 2000 mg/kg           |
| <b>Oral</b>   |         |                        |
| LD50  | Rat     | > 2000 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.

#### ACGIH Carcinogens

|   |  |
|---|--|
| Magnesium Silicate Hydrate (CAS 14807-96-6) | A4 Not classifiable as a human carcinogen. |
|---|--|

## IARC Monographs. Overall Evaluation of Carcinogenicity

Magnesium Silicate Hydrate (CAS 14807-96-6)

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

## US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

|   |  |
|---|--|
| <b>Reproductive toxicity</b>                              | 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 (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 |

|                                      |  |
|--------------------------------------|--|
| <b>Persistence and degradability</b> | No data is available on the degradability of this product. |
| <b>Bioaccumulative potential</b>     | No data available.   |
| <b>Mobility in soil</b>              | No data 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.   |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <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). |
| <b>Contaminated packaging</b>                | 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

### DOT

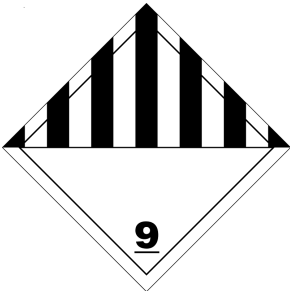
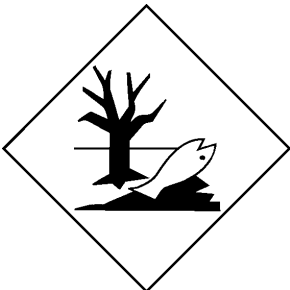
|                                     |  |
|-------------------------------------|--|
| <b>UN number</b>                    | UN3077   |
| <b>UN proper shipping name</b>      | Environmentally hazardous substances, solid, n.o.s. (Copper), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>                        | 9  |
| <b>Subsidiary risk</b>              | -  |
| <b>Label(s)</b>                     | 9  |
| <b>Packing group</b>                | III  |
| <b>Environmental hazards</b>        |  |
| <b>Marine pollutant</b>             | Yes  |
| <b>Special precautions for user</b> | Not available.   |
| <b>Special provisions</b>           | 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33                                |
| <b>Packaging exceptions</b>         | 155  |
| <b>Packaging non bulk</b>           | 213  |
| <b>Packaging bulk</b>               | 240  |

**IATA**

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN3077  |
| <b>UN proper shipping name</b>      | Environmentally hazardous substance, solid, n.o.s. (Copper) |
| <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> | Not available.  |
| <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), 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>   | Not available.  |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.   |

**DOT; IATA; IMDG****Marine pollutant****General information**

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

**15. Regulatory information****US federal regulations**

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Copper (CAS 7440-50-8) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| COPPER        | 7440-50-8  | 1 - 5    |

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**US state regulations****US. New Jersey Worker and Community Right-to-Know Act**

Calcium Carbonate (CAS 1317-65-3)

Copper (CAS 7440-50-8)

Magnesium Silicate Hydrate (CAS 14807-96-6)

**California Proposition 65****WARNING:** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Copper (CAS 7440-50-8)

Distillates, Petroleum, Solvent-refined Heavy Naphthenic (CAS 64741-96-4)

Magnesium Silicate Hydrate (CAS 14807-96-6)

**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)                                    | Yes                    |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| 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                    |
| Taiwan                      | Taiwan Toxic Chemical Substances (TCS)                                 | 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, including date of preparation or last revision

**Issue date** 10-15-2015

**Revision date** 11-17-2017

**Version #** 05

**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** Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties  
Stability and reactivity: Hazardous decomposition products  
Stability and reactivity: Incompatible materials  
Regulatory Information: Risk Phrases - Labeling  
HazReg Data: North America  
GHS: Classification