



# SAFETY DATA SHEET

Revision Date 21-May-2015

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** COPPER ANTI-SEIZE LUBRICANT 16 OZ.

### Other means of identification

**Product Code** 31163

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricant

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

ITW Permatex  
10 Columbus Blvd.  
Hartford, CT 06106 USA

#### Distributor

ITW Permatex Canada  
35 Brownridge Road, Unit 1  
Halton Hills, ON Canada L7G 0C6  
Telephone: (800) 924-6994

**Company Phone Number** 1-87-Permatex  
(877) 376-2839

**24 Hour Emergency Phone Number** Chem-Tel: 800-255-3924  
International Emergency:  
00+1+ 813-248-0585  
Contract Number: MIS0003453

**E-mail address** mail@permatex.com

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral

Category 4

### Label elements

#### Emergency Overview

#### **Warning**

Harmful if swallowed

**Appearance** Copper**Physical state** Paste**Odor** (Petroleum distillates)**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Very toxic to aquatic life with long lasting effects. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I.

Unknown acute toxicity

31.7415% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**substance(s)**

| Chemical Name  | CAS No     | Weight-% | Trade Secret |
|--|------------|----------|--------------|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC | 64742-52-5 | 30 - 60  | *            |
| COPPER   | 7440-50-8  | 10 - 30  | *            |
| CALCIUM OXIDE  | 1305-78-8  | 10 - 30  | *            |
| GRAPHITE   | 7782-42-5  | 5 - 10   | *            |
| MINERAL OIL  | 8042-47-5  | 5 - 10   | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

Get medical advice/attention if you feel unwell.

**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin contact**

IF ON SKIN: Wash skin with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.

|   |   |
|---|---|
| <b>Inhalation</b>                         | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician. |
| <b>Ingestion</b>                          | IF SWALLOWED:.. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.   |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.   |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** See section 2 for more information.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

**Unsuitable extinguishing media**

None.

**Specific hazards arising from the chemical**

None in particular.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological Information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Strong oxidizing agents, Acids

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

| Chemical Name              | ACGIH TLV   | OSHA PEL  | NIOSH IDLH  |
|----------------------------|---|---|---|
| COPPER<br>7440-50-8        | TWA: 1 mg/m <sup>3</sup> Cu dust and mist                                     | TWA: 0.1 mg/m <sup>3</sup> fume<br>TWA: 1 mg/m <sup>3</sup> dust and mist<br>(vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist   | IDLH: 100 mg/m <sup>3</sup> Cu dust and mist<br>TWA: 1 mg/m <sup>3</sup> Cu dust and mist |
| CALCIUM OXIDE<br>1305-78-8 | TWA: 2 mg/m <sup>3</sup>  | TWA: 5 mg/m <sup>3</sup><br>(vacated) TWA: 5 mg/m <sup>3</sup> not in effect as a result of reconsideration   | IDLH: 25 mg/m <sup>3</sup><br>TWA: 2 mg/m <sup>3</sup>                                    |
| GRAPHITE<br>7782-42-5      | TWA: 2 mg/m <sup>3</sup> respirable fraction all forms except graphite fibers | TWA: 15 mg/m <sup>3</sup> total dust synthetic<br>TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic<br>(vacated) TWA: 2.5 mg/m <sup>3</sup> respirable dust natural<br>(vacated) TWA: 10 mg/m <sup>3</sup> total dust synthetic<br>(vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic<br>TWA: 15 mppcf natural | IDLH: 1250 mg/m <sup>3</sup><br>TWA: 2.5 mg/m <sup>3</sup> natural respirable dust        |

NIOSH IDLH *Immediately Dangerous to Life or Health*

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Paste  
**Appearance** Copper  
**Odor** (Petroleum distillates)  
**Odor threshold** No information available

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | No information available |                         |
| Melting point / freezing point | No information available |                         |
| Boiling point / boiling range  | > 300 °C / 572 °F        |                         |
| Flash point                    | 107 °C / 225 °F          |                         |
| Evaporation rate               | < 1                      | Butyl acetate = 1       |
| Flammability (solid, gas)      | No information available |                         |
| Flammability Limit in Air      |                          |                         |
| Upper flammability limit:      | No information available |                         |
| Lower flammability limit:      | No information available |                         |
| Vapor pressure                 | No information available |                         |
| Vapor density                  | >1                       | Air = 1                 |
| Relative density               | 1.31                     |                         |
| Water solubility               | Negligible               |                         |
| Solubility in other solvents   | No information available |                         |
| Partition coefficient          | No information available |                         |
| Autoignition temperature       | No information available |                         |
| Decomposition temperature      | No information available |                         |
| Kinematic viscosity            | No information available |                         |
| Dynamic viscosity              | No information available |                         |
| Explosive properties           | No information available |                         |
| Oxidizing properties           | No information available |                         |

**Other Information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular weight | No information available |
| VOC Content (%)  | 0                        |
| Density          | No information available |
| Bulk density     | No information available |

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Excessive heat.

**Incompatible materials**

Strong oxidizing agents, Acids

**Hazardous Decomposition Products**

Carbon oxides

Oxides of sulfur

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                    |  |
|--------------------|--|
| <b>Inhalation</b>  | May cause irritation of respiratory tract.   |
| <b>Eye contact</b> | Contact with eyes may cause irritation. May cause redness and tearing of the eyes. |

**Skin contact** May cause skin irritation and/or dermatitis.

**Ingestion** Harmful if swallowed.

| Chemical Name              | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|----------------------------|----------------------|-------------|-----------------|
| CALCIUM OXIDE<br>1305-78-8 | = 500 mg/kg ( Rat )  | -           | -               |
| MINERAL OIL<br>8042-47-5   | > 5000 mg/kg ( Rat ) | -           | -               |

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name   | ACGIH | IARC    | NTP | OSHA |
|---|-------|---------|-----|------|
| DISTILLATES<br>(PETROLEUM),<br>HYDROTREATED HEAVY<br>NAPHTHENIC<br>64742-52-5 | A2    | Group 1 | -   | X    |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A2 - Suspected Human Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 1 - Carcinogenic to Humans*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

**Chronic toxicity** May cause adverse liver effects.

**Target Organ Effects** Central Vascular System (CVS), Eyes, kidney, Liver, Respiratory system, Skin.

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 1861 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

12.2675% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name  | Algae/aquatic plants  | Fish   | Crustacea                                    |
|--|---|--|--|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>NAPHTHENIC<br>64742-52-5 | -   | 5000: 96 h Oncorhynchus mykiss<br>mg/L LC50  | 1000: 48 h Daphnia magna mg/L<br>EC50        |
| COPPER<br>7440-50-8  | 0.0426 - 0.0535: 72 h<br>Pseudokirchneriella subcapitata<br>mg/L EC50 static 0.031 - 0.054: 96<br>h Pseudokirchneriella subcapitata<br>mg/L EC50 static | 0.2: 96 h Pimephales promelas<br>mg/L LC50 flow-through 0.052: 96 h<br>Oncorhynchus mykiss mg/L LC50<br>flow-through 1.25: 96 h Lepomis<br>macrochirus mg/L LC50 static 0.3:<br>96 h Cyprinus carpio mg/L LC50<br>semi-static 0.8: 96 h Cyprinus<br>carpio mg/L LC50 static 0.112: 96 h<br>Poecilia reticulata mg/L LC50<br>flow-through 0.0068 - 0.0156: 96 h<br>Pimephales promelas mg/L LC50<br>0.3: 96 h Pimephales promelas<br>mg/L LC50 static | 0.03: 48 h Daphnia magna mg/L<br>EC50 Static |
| CALCIUM OXIDE<br>1305-78-8   | -   | 1070: 96 h Cyprinus carpio mg/L<br>LC50 static   | -  |
| MINERAL OIL<br>8042-47-5   | -   | 10000: 96 h Lepomis macrochirus<br>mg/L LC50   | -  |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

| Chemical Name            | Partition coefficient |
|--------------------------|-----------------------|
| MINERAL OIL<br>8042-47-5 | >6                    |

**Other adverse effects**

No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

|                               |   |
|-------------------------------|---|
| <b>Disposal of wastes</b>     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| <b>Contaminated packaging</b> | Do not reuse container.   |
| <b>US EPA Waste Number</b>    | Not applicable  |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name              | California Hazardous Waste Status |
|----------------------------|-----------------------------------|
| COPPER<br>7440-50-8        | Toxic                             |
| CALCIUM OXIDE<br>1305-78-8 | Corrosive                         |

### 14. TRANSPORT INFORMATION

**DOT**

Proper shipping name: Not regulated

**IATA**

Proper shipping name: Not regulated

**IMDG**

Proper shipping name: Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

|               |  |
|---------------|--|
| TSCA          | Complies                                   |
| DSL/NDL       | Complies                                   |
| EINECS/ELINCS | Complies                                   |
| ENCS          | Contains: Natural substance(s) Not Listed. |
| IECSC         | Complies                                   |
| KECL          | Complies                                   |
| PICCS         | Complies                                   |
| AICS          | Complies                                   |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name      | SARA 313 - Threshold Values % |
|--------------------|-------------------------------|
| COPPER - 7440-50-8 | 1.0                           |

#### **SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name       | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| COPPER<br>7440-50-8 | -                           | X                      | X                         | -                          |

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name       | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                   |
|---------------------|--------------------------|----------------|--|
| COPPER<br>7440-50-8 | 5000 lb                  | -              | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### **U.S. State Right-to-Know Regulations**

| Chemical Name              | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| COPPER<br>7440-50-8        | X          | X             | X            |
| CALCIUM OXIDE<br>1305-78-8 | X          | X             | X            |
| GRAPHITE<br>7782-42-5      | X          | X             | X            |

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 1 | <b>Flammability</b> 1 | <b>Instability</b> 0      | -                            |
| <b>HMIS</b> | <b>Health hazards</b> 1 | <b>Flammability</b> 1 | <b>Physical hazards</b> 0 | <b>Personal protection</b> B |

NFPA (National Fire Protection Association)  
 HMIS (Hazardous Material Information System)



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**Disclaimer**

The information provided in this Material 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.

**End of Safety Data Sheet**