

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : KOPR-KOTE® - AEROSOL  
Product code : J100AG

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Lubricant  
Recommended use : Lubricants, Greases and Release Products

#### 1.3. Supplier

##### Manufacturer

Whitmore Manufacturing LLC  
930 Whitmore Drive  
Rockwall, Texas, 75087  
USA  
T 1.972.771.1000  
[Regulatory@whitmores.com](mailto:Regulatory@whitmores.com) - [www.jetlube.com](http://www.jetlube.com)

#### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week  
Within USA and Canada: 1.800.424.9300  
Outside USA and Canada: +1.703.527.3887  
(collect calls accepted)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable aerosol Category 1 H222 Extremely flammable aerosol  
Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) : H222 - Extremely flammable aerosol  
Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Pressurized container: Do not pierce or burn, even after use.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Contains gas under pressure; may explode if heated.

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name   | Product identifier | %      | GHS US classification     |
|--------|--------------------|--------|---------------------------|
| copper | CAS-No.: 7440-50-8 | 5 – 10 | Acute Tox. 4 (Oral), H302 |

Full text of hazard classes and H-statements : see section 16

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### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                         |
| First-aid measures after ingestion    | : Call a poison center/doctor/physician if you feel unwell.      |

#### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

#### 5.2. Specific hazards arising from the chemical

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : Extremely flammable aerosol. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 5.3. Special protective equipment and precautions for fire-fighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Exercise caution. Spill area may be slippery. No open flames, no sparks, and no smoking. |
|----------------------|--|

##### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Mechanically recover the product.                             |
| Other information       | : Dispose of materials or solid residues at an authorized site. |

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.   |

#### 7.2. Conditions for safe storage, including any incompatibilities

|                    |  |
|--------------------|--|
| Storage conditions | : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool. |
|--------------------|--|

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### KOPR-KOTE® - AEROSOL

No additional information available

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### copper (7440-50-8)

#### USA - ACGIH - Occupational Exposure Limits

|               |  |
|---------------|--|
| ACGIH OEL TWA | 0.2 mg/m <sup>3</sup><br>1 mg/m <sup>3</sup> |
|---------------|--|

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Neoprene or nitrile rubber gloves

| Type              | Material  | Permeation       | Thickness (mm)  | Penetration |
|-------------------|---|------------------|-----------------|-------------|
| Disposable gloves | Nitrile rubber (NBR),<br>Neoprene rubber (HNBR) | 2 (> 30 minutes) | 0.3 mm - 0.6 mm |             |

#### Eye protection:

Wear eye protection

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                                |
|---|--------------------------------|
| Physical state                                  | : Liquid                       |
| Appearance                                      | : Aerosol.                     |
| Color   | : Metallic light brown         |
| Odor  | : petroleum-like odor          |
| Odor threshold                                  | : No data available            |
| pH  | : 7                            |
| Melting point                                   | : 260 °C                       |
| Freezing point                                  | : No data available            |
| Boiling point                                   | : 315 °C                       |
| Flash point                                     | : > 75 °C                      |
| Relative evaporation rate (butyl acetate=1)     | : No data available            |
| Flammability (solid, gas)                       | : Extremely flammable aerosol. |
| Vapor pressure                                  | : No data available            |
| Relative vapor density at 20°C                  | : No data available            |
| Relative density                                | : No data available            |
| Solubility                                      | : insoluble in water.          |
| Partition coefficient n-octanol/water (Log Pow) | : No data available            |
| Auto-ignition temperature                       | : No data available            |
| Decomposition temperature                       | : No data available            |
| Viscosity, kinematic                            | : No data available            |
| Viscosity, dynamic                              | : No data available            |
| Explosion limits                                | : No data available            |
| Explosive properties                            | : No data available            |
| Oxidizing properties                            | : No data available            |

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Extremely flammable aerosol.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| copper (7440-50-8)    |  |
|-----------------------|--|
| LD50 oral rat         | 300 – 500 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male / female, Experimental value, Oral) |
| LD50 dermal rat       | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))          |
| LC50 Inhalation - Rat | > 5.11 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation)  |
| ATE US (oral)         | 300 mg/kg body weight  |

Skin corrosion/irritation : Not classified  
pH: 7

| copper (7440-50-8) |                                     |
|--------------------|-------------------------------------|
| pH                 | No data available in the literature |

Serious eye damage/irritation : Not classified  
pH: 7

| copper (7440-50-8) |                                     |
|--------------------|-------------------------------------|
| pH                 | No data available in the literature |

Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Viscosity, kinematic : No data available

| copper (7440-50-8)   |                        |
|----------------------|------------------------|
| Viscosity, kinematic | Not applicable (solid) |

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

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| copper (7440-50-8)                  |  |
|-------------------------------------|--|
| LC50 - Fish [1]                     | 1.25 mg/l (APHA, 96 h, Cyprinus carpio, Fresh water, Experimental value)   |
| EC50 - Crustacea [1]                | 0.03 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| 12.2. Persistence and degradability |  |
| copper (7440-50-8)                  |  |
| Chemical oxygen demand (COD)        | Not applicable   |
| ThOD                                | Not applicable   |
| 12.3. Bioaccumulative potential     |  |
| copper (7440-50-8)                  |  |
| Bioaccumulative potential           | Not bioaccumulative.   |
| 12.4. Mobility in soil              |  |
| copper (7440-50-8)                  |  |
| Ecology - soil                      | No (test) data on mobility of the substance available.   |
| 12.5. Other adverse effects         |  |
| No additional information available |  |

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT  | TDG                                | IMDG  | IATA  |
|--|------------------------------------|---|---|
| 14.1. UN number  |                                    |   |   |
| 1950   | UN1950                             | 1950  | 1950  |
| 14.2. Proper Shipping Name                                       |                                    |   |   |
| Aerosols (CONTAINS : LPG, liquefied, under pressure)             | AEROSOLS                           | AEROSOLS (CONTAINS : LPG, liquefied, under pressure)  | Aerosols, flammable (CONTAINS : LPG, liquefied, under pressure)   |
| Transport document description                                   |                                    |   |   |
| UN1950 Aerosols (CONTAINS : LPG, liquefied, under pressure), 2.1 | UN1950 AEROSOLS, 2.1               | UN 1950 AEROSOLS (CONTAINS : LPG, liquefied, under pressure), 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1950 Aerosols, flammable (CONTAINS : LPG, liquefied, under pressure), 2.1, ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es)                                 |                                    |   |   |
| 2.1  | 2.1                                | 2.1   | 2.1   |
|  |                                    |   |   |
| 14.4. Packing group  |                                    |   |   |
| Not applicable   | Not applicable                     | Not applicable  | Not applicable  |
| 14.5. Environmental hazards                                      |                                    |   |   |
| Dangerous for the environment: Yes                               | Dangerous for the environment: Yes | Dangerous for the environment: Yes<br>Marine pollutant: Yes   | Dangerous for the environment: Yes  |

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| DOT                                    | TDG | IMDG | IATA |
|--|-----|------|------|
| No supplementary information available |     |      |      |

### 14.6. Special precautions for user

#### DOT

|  |   |
|--|---|
| UN-No.(DOT)  | : UN1950  |
| DOT Special Provisions (49 CFR 172.102)                          | : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.  |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 306   |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : None  |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : None  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 75 kg   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 150 kg  |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.   |
| DOT Vessel Stowage Other   | : 25 - Protected from sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials |

#### TDG

|   |   |
|---|---|
| UN-No. (TDG)  | : UN1950  |
| TDG Special Provisions  | : 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL.<br>(2) Subsection (1) does not apply to self-defence spray. |
| Explosive Limit and Limited Quantity Index                                  | : 1 L   |
| Excepted quantities (TDG)   | : E0  |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : 75 L  |
| Emergency Response Guide (ERG) Number                                       | : 126   |

#### IMDG

|                             |   |
|-----------------------------|---|
| Special provision (IMDG)    | : 63, 190, 277, 327, 344, 381, 959  |
| Limited quantities (IMDG)   | : SP277   |
| Excepted quantities (IMDG)  | : E0  |
| Packing instructions (IMDG) | : P207, LP200   |
| Packing provisions (IMDG)   | : PP87, L2  |
| EmS-No. (Fire)              | : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES                             |
| EmS-No. (Spillage)          | : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE) |
| Stowage category (IMDG)     | : None  |
| Stowage and handling (IMDG) | : SW1, SW22   |
| Segregation (IMDG)          | : SG69  |

#### IATA

|  |         |
|--|---------|
| PCA Excepted quantities (IATA)               | : E0    |
| PCA Limited quantities (IATA)                | : Y203  |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA)              | : 203   |
| PCA max net quantity (IATA)                  | : 75kg  |
| CAO packing instructions (IATA)              | : 203   |

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CAO max net quantity (IATA) : 150kg  
Special provision (IATA) : A145, A167, A802  
ERG code (IATA) : 10L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

|        |                   |         |
|--------|-------------------|---------|
| copper | CAS-No. 7440-50-8 | 5 – 10% |
|--------|-------------------|---------|

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component   | State or local regulations  |
|---|---|
| LPG, liquefied, under pressure(68476-85-7)                    | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| graphite(7782-42-5)   | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List   |
| quartz, 1%≤conc respirable crystalline silica<10%(14808-60-7) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List   |
| talc(14807-96-6)  | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List   |
| chalk(1317-65-3)  | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List   |
| calcium sulfate(7778-18-9)                                    | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List   |
| molybdenum(IV) sulfide(1317-33-5)                             | U.S. - Massachusetts - Right To Know List; U.S. - New York City - Right to Know Hazardous Substances List   |

## SECTION 16: Other information

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Revision date : 1/31/2023

| Full text of H-phrases |                             |
|------------------------|-----------------------------|
| H222                   | Extremely flammable aerosol |
| H302                   | Harmful if swallowed        |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.