Conforms to HCS 2012 - United States and Canada WHMIS 2015



# SAFETY DATA SHEET

# **Section 1. Identification**

Product identifier(s)/

Trademark(s) used on the

label

Other means of identification

: Product code: 68100

: VAN-ED EQUIPMENT

**Identified uses** 

**Manufacturer** 

: HUSKEY Specialty Lubricants

1580 Industrial Ave. Norco, CA 92860 USA Tel: 1-951-340-4000

Tel: 1-888-448-7539 (Toll-free in the USA)

Fax: 1-951-340-4011

**Emergency telephone** number (with hours of

operation)

: CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3877

(24/7)

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

**Classification of the** substance or mixture : AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

#### **GHS** label elements

**Hazard pictograms** 



Signal word

: Warning

**Hazard statements** 

: H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** 

: P273 - Avoid release to the environment.

Response

: P391 - Collect spillage.

**Storage** 

: Not applicable.

**Disposal** 

P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

### Section 2. Hazards identification

Other hazards which do not: None known.

result in classification/ HHNOC/PHNOC

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

**CAS** number/other identifiers

**Eye contact** 

Inhalation

Ingestion

**CAS number** : Not applicable.

Product code : 68100

Ingredient name	%	CAS number
Copper	≥1 - ≤3	7440-50-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Toda in the cooler of the cooler of the cooler of

Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue to rinse for at

least 20 minutes. Get medical attention if irritation occurs.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Skin contact

Flush contaminated skin with plenty of water. Get medical attention if symptoms

occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain

an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

### Section 4. First aid measures

#### Over-exposure signs/symptoms

**Eye contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Specific treatments No specific treatment. **Protection of first-aiders** 

No special protection is required.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: None known.

Specific hazards arising from the chemical

This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

**Hazardous thermal** decomposition products discharged to any waterway, sewer or drain.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: No special measures are required.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

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

For non-emergency personnel

: Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

**Small spill** 

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, : including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

Control parameters

**United States** 

**Occupational exposure limits** 

Ingredient name	Exposure limits
Copper	ACGIH TLV (United States, 3/2016).  TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dust and mist  TWA: 0.2 mg/m³ 8 hours. Form: Fertilizer and/or industrial use.  NIOSH REL (United States, 10/2013).  TWA: 1 mg/m³, (as Cu) 10 hours. Form: Dusts and mists  OSHA PEL (United States, 6/2016).  TWA: 1 mg/m³ 8 hours. Form: Dusts and mists  TWA: 0.1 mg/m³ 8 hours. Form: Fertilizer and/or industrial use.

#### Canada

**Occupational exposure limits** 

### Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Copper	CA Alberta Provincial (Canada, 4/2009).  8 hrs OEL: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and mists 8 hrs OEL: 0.2 mg/m³ 8 hours. Form: Fertilizer and/or industrial use.  CA British Columbia Provincial (Canada, 5/2015).  TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and mists TWA: 0.2 mg/m³, (as Cu) 8 hours. Form: Fertilizer and/or industrial use.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 0.2 mg/m³, (as Cu) 8 hours. Form: Fertilizer and/or industrial use.  TWAEV: 1 mg/m³, (as Cu) 8 hours. Form: dusts & mists  CA Ontario Provincial (Canada, 7/2015).  TWA: 0.2 mg/m³ 8 hours. Form: Fertilizer and/or industrial use.  TWA: 1 mg/m³ 8 hours. Form: dust and mists  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 0.6 mg/m³, (measured as Cu) 15 minutes. Form: Fertilizer and/or industrial use.  TWA: 0.2 mg/m³, (measured as Cu) 8 hours. Form: Fertilizer and/or industrial use.  STEL: 3 mg/m³, (measured as Cu) 8 hours. Form: dust and mist TWA: 1 mg/m³, (measured as Cu) 8 hours. Form: dust and mist

# Appropriate engineering controls

**Environmental exposure** controls

- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Semi-solid.

Color : Dark Metallic Copper

Odor : Mild.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : Not available.

Flash point : Open cup: 288.3°C (551°F) [Cleveland.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.03 g/ml

Solubility : Insoluble in water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Do not heat above flash point.

**Incompatible materials**: Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should

products not be produced.

### **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

There is no data available.

#### **Irritation/Corrosion**

There is no data available.

#### **Sensitization**

There is no data available.

# **Section 11. Toxicological information**

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.

#### **Teratogenicity**

There is no data available.

#### Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.

# Information on the likely

routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No known significant effects or critical hazards. **Inhalation** : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

**Potential immediate** 

effects

: No known significant effects or critical hazards.

Potential delayed effects

: No known significant effects or critical hazards.

Long term exposure

**Potential immediate** 

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

#### Potential chronic health effects

**General** : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

## **Section 11. Toxicological information**

Numerical measures of toxicity

**Acute toxicity estimates** 

Route	ATE value
Oral	48992.2 mg/kg

# **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure	
Copper	Acute EC50 1100 μg/L Fresh water	Aquatic plants - Lemna minor	4 days	
	Acute EC50 2.1 μg/L Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 hours	
	Acute IC50 13 μg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours	
	Acute IC50 5.4 mg/L Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours	
	Acute LC50 0.072 µg/L Marine water	Crustaceans - Amphipoda - Adult	48 hours	
	Acute LC50 7.56 µg/L Marine water	Fish - Periophthalmus waltoni - Adult	96 hours	
	Chronic NOEC 2.5 µg/L Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours	
	Chronic NOEC 7 mg/L Fresh water	Aquatic plants - Ceratophyllum demersum	3 days	
	Chronic NOEC 0.02 mg/L Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days	
	Chronic NOEC 2 µg/L Fresh water	Daphnia - Daphnia magna	21 days	
	Chronic NOEC 0.8 µg/L Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks	

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

There is no data available.

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT	TDG	IMDG	IATA
UN number	UN3077	UN3077	UN3077	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper). Marine pollutant (Copper)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper). Marine pollutant (Copper)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper). Marine pollutant (Copper)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)
Transport hazard class(es)	9	9	9	9
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional information	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).  Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6. 1.1 and 5.0.2.8.

**AERG: 171** 

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Section 15. Regulatory information

**U.S. Federal regulations** 

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Antimony dialkyldithiocarbamate; Copper

Clean Air Act Section 112 (b) Hazardous Air **Pollutants (HAPs)** 

: Listed

Clean Air Act Section 602

: Not listed

**Class I Substances** 

: Not listed

Clean Air Act Section 602 **Class II Substances** 

: Not listed

**DEA List I Chemicals** (Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) : Not listed

**SARA 302/304** 

### Section 15. Regulatory information

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

**Classification**: Not applicable.

**SARA 313** 

	Product name	CAS number
Form R - Reporting requirements	Copper Antimony dialkyldithiocarbamate Registry number: NJTSR 800983-5015P	7440-50-8
Supplier notification	Copper Antimony dialkyldithiocarbamate Registry number: NJTSR 800983-5015P	7440-50-8

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

**Massachusetts**: The following components are listed: Residual oils (petroleum), solvent-dewaxed;

Distillates (petroleum), hydrotreated heavy naphthenic; Natural Graphite; Copper

**New York** : The following components are listed: Copper

**New Jersey** : The following components are listed: Residual oils (petroleum), solvent-dewaxed;

Distillates (petroleum), hydrotreated heavy naphthenic; Natural Graphite; Antimony

dialkyldithiocarbamate; Copper

Pennsylvania: The following components are listed: Natural Graphite; Antimony dialkyldithiocarbamate;

Copper

#### California Prop. 65

No products were found.

#### **Canada**

#### **Canadian lists**

Canadian NPRI: The following components are listed: tris(Dipentyldithiocarbamato-S,S')antimony; Copper

CEPA Toxic substances : None of the components are listed.

Canada inventory : All components are listed or exempted.

International lists
National inventory

Australia : All components are listed or exempted.

China : All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Petroleum components contained in this product meet the IP 346 criteria of less than 3 percent DMSO-extractable components.

### Section 16. Other information

#### **Hazardous Material Information System (U.S.A.)**

Health: 1 \* Flammability: 1 Physical hazards: 1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### **National Fire Protection Association (U.S.A.)**

Health: 1 Flammability: 1 Instability: 1

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification
	Calculation method Calculation method

#### **History**

Date of issue mm/dd/yyyy: 07/08/2022

Date of previous issue : Version : 1

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot quarantee that these are the only hazards that exist.