



SLIPKOTE® Specialty Lubricants

manufactured by HUSK-ITT Corporation / SPECIALTY LUBRICANTS Corporation

Eastern Region Office:

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Conforms to HazCom 2012/United States

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER(S)/ TRADEMARK(S) USED ON THE LABEL:	SLIPKOTE 2000 Anti-Seize
OTHER MEANS OF IDENTIFICATION:	Product Code – 10476 (MN101)
NSF H-1 REGISTRATION NUMBER:	Not Available
MANUFACTURER:	SPECIALTY LUBRICANTS CORPORATION 8300 Corporate Park Drive Macedonia, OH 44056 USA (P): 1-800-238-5823 (F): 1-330-425-9637
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 2
GHS LABEL ELEMENTS	
HAZARD PICTOGRAMS:	
SIGNAL WORD:	Warning
HAZARD STATEMENTS:	Very toxic to aquatic life. Toxic to aquatic life with long-lasting effects.
PRECAUTIONARY STATEMENTS	
PREVENTION:	Avoid release to the environment.
RESPONSE:	Collect spillage.
STORAGE:	Not applicable.
DISPOSAL:	Dispose of contents and container in accordance with all local, regional, national, and international regulations.
HAZARDS NOT OTHERWISE CLASSIFIED:	None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: Mixture
OTHER MEANS OF IDENTIFICATION: Not Available

CAS NUMBER/OTHER IDENTIFIERS

CAS NUMBER: Not Applicable

PRODUCT CODE: 10476

INGREDIENT NAME	%	CAS NUMBER
Copper	1-5	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

EYE CONTACT: 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.

INHALATION: 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.

SKIN CONTACT: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: 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 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.

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.

SECTION 4: FIRST AID MEASURES (CONTINUED)

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, CO₂, water spray (fog), or foam

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
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 non-emergency 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.

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

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT NAME:	EXPOSURE LIMITS:
Copper	ACGIH TLV (UNITED STATES, 3/2012) TWA 1 mg/m ³ , (as Cu) 8 hours. Form: Dust and Mist TWA: 0.2 mg/m ³ 8 hours. Form: Fume OSHA PEL (UNITED STATES, 6/2010). TWA: 1 mg/m ³ 8 hours. Form: Dusts and Mists TWA: 0.1 mg/m ³ , (as Cu) 10 hours. Form: Dusts and Mists

APPROPRIATE ENGINEERING CONTROLS: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

ENVIRONMENTAL EXPOSURE CONTROLS: 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: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

PHYSICAL STATE:	Paste
COLOR:	Copper [Dark]
ODOR:	Petroleum
ODOR THRESHOLD:	Not Available
pH:	Not Available
MELTING POINT:	Not Available
BOILING POINT:	Not Available
FLASH POINT:	Open Cup: 232.22°C (450°F) [Cleveland]
BURNING TIME:	Not Available
BURNING RATE:	Not Available
EVAPORATION RATE:	Not Available
FLAMMABILITY (SOLID, GAS):	Not Available
LOWER AND UPPER EXPLOSIVE (FLAMMABLE) LIMITS:	Not Available
VAPOR PRESSURE:	Not Available
VAPOR DENSITY:	Not Available
RELATIVE DENSITY:	1.04 g/ml
SOLUBILITY:	Insoluble in water
PARTITION COEFFICIENT: N-OCTANOL/WATER:	Not Available
AUTO-IGNITION TEMPERATURE:	Not Available
DECOMPOSITION TEMPERATURE:	Not Available
SADT:	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, acids, alkalis
HAZARDOUS DECOMPOSITION PRODUCTS:	Under normal conditions of storage and use, hazardous decomposition products should 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.
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.

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

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 EFFECTS: No known significant effects or critical hazards.
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.

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

ROUTE:	ATE VALUE
Oral	108,965.50 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 ml/L Marine water	Aquatic plants – Plantae – Exponential growth phase	72 hours
	Acute LC50 0.072 µg/l Marine water	Crustaceans – Amphipoda – Adult Fish	48 hours
	Acute LC50 7.56 µg/l Marine water	Perlophthalmus waltoni – Adult Algae	96 hours
	Chronic NOEC 2.5 µg/l Marine water	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	

SECTION 12: ECOLOGICAL INFORMATION (CONTINUED)

PERSISTENCE AND DEGRADABILITY:	There is no data available
BIOACCUMULATIVE POTENTIAL:	There is no data available
MOBILITY IN SOIL:	
SOIL/WATER PARTITION COEFFICIENT (K_{oc}):	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.
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SECTION 14: TRANSPORT INFORMATION

	DOT CLASSIFICATION	IMDG	IATA
UN NUMBER:	UN3077	UN3077	UN3077
UN PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper)
TRANSPORT HAZARD CLASS(ES):	9	9	9
PACKING GROUP:	III	III	III
ENVIRONMENTAL HAZARDS:	Yes.	Yes.	Yes.
ADDITIONAL INFORMATION:	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

AERG:	Not Applicable
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.
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:	Not Available

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: Copper

CLEAN AIR ACT SECTION 112(b) HAZARDOUS AIR POLLUTANTS (HAPs): Listed

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCES: Not Listed

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES: Not Listed

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS): Not Listed

DEA LIST II CHEMICALS (ESSENTIAL CHEMICALS): Not Listed

SARA 302/304

COMPOSITION/INFORMATION ON INGREDIENTS: No products were found.
SARA 304 RQ: Not Applicable

SARA 311/312

CLASSIFICATION: Not Applicable
COMPOSITION/INFORMATION ON INGREDIENTS: No products were found.

SARA 313

	PRODUCT NAME:	CAS NUMBER:	%
FORM R – REPORTING REQUIREMENTS:	Copper	7440-50-8	1-5
	Aluminum	7429-90-5	1-5
SUPPLIER NOTIFICATION:	Copper	7440-50-8	1-5
	Aluminum	7429-90-5	1-5

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:
Graphite, natural
Copper
Aluminum

NEW YORK: The following components are listed: Copper

NEW JERSEY: The following components are listed:
Distillates (petroleum), hydro-treated heavy paraffinic
Graphite, natural
Copper
Distillates (petroleum), hydro-treated heavy naphthenic
Aluminum

PENNSYLVANIA: The following components are listed:
Graphite, natural
Copper
Aluminum

CALIFORNIA PROP. 65 No products were found

INTERNATIONAL REGULATIONS

INTERNATIONAL LISTS: **Australia inventory (AICS):** All components listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE I CHEMICALS: Not Listed
CHEMICAL WEAPONS CONVENTION LIST SCHEDULE II CHEMICALS: Not Listed
CHEMICAL WEAPONS CONVENTION LIST SCHEDULE III CHEMICALS: Not Listed

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® and NFPA ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

The customer is responsible for determining the PPE code for this material.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)

Health: 1

Flammability: 1

Instability: 1

HISTORY

DATE ISSUE (MM/DD/YYYY): 01/01/2014

VERSION: 1

REVISED SECTION(S): Not Applicable

KEY TO ABBREVIATIONS:

ATE = Acute Toxicity Estimate

BCF = Bio-concentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Code

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

NOTICE TO THE 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 guarantee that these are the only hazards that exist.