

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 01/13/2026

Reviewed on 01/13/2026

1 Identification

- **Product identifier**
 - **Trade name:** MicrKote™ Anti-Seize Stick - Copper
 - **Synonyms:** Copper Anti-Seize Stick
- **Other means of identification**
 - **Part number:** 9217
- **Application of the substance / the mixture:** Lubricant
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
TIFCO Industries, Inc
PO Box 40277
Houston, TX 77240
USA
Telephone: 800-868-4326
 - **Emergency telephone number:**
United States: 800-255-3924

2 Hazard(s) identification

- **Classification of the substance or mixture** The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
 - **GHS label elements** Void
 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard statements** Void
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable
 - **vPvB:** Not applicable
- **Classification according to (d)(1)(ii) of § 1910.1200**
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
- **Hazards not otherwise classified**
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
 - **Description:** Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 8002-74-2	Paraffin wax	10 – 30%
	Combustible Dust	
CAS: 8001-78-3	Castor oil	1 – 5%
	Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H335	
CAS: 7440-50-8	copper	0.5 – 1.5%
CAS: 106-14-9	Ixiol g 21	0.5 – 1.5%
	Skin irritation 2, H315; Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H335	
CAS: 14808-60-7	Crystalline Silica	0.1 – 1%
	Carcinogenicity 1A, H350; Specific target organ toxicity (repeated exposure) 1, H372	

4 First-aid measures

- **Description of first aid measures**
 - **General information:** No special measures required.
 - **After inhalation:** Supply fresh air; consult doctor in case of complaints.

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- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
 - **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation
 - Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose of the collected material according to regulations.
- **Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required
 - **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
 - At this time, the other constituents have no known exposure limits.

CAS: 8002-74-2 Paraffin wax

REL Long-term value: 2 mg/m³
 TLV Long-term value: 2 mg/m³

CAS: 7440-50-8 copper

PEL Long-term value: 1* 0.1** mg/m³
 as Cu *dusts and mists **fume
 REL Long-term value: 1* 0.1** mg/m³
 as Cu *dusts and mists **fume
 TLV Long-term value: 0.2* 1** mg/m³
 as Cu *fume **dust/mist

CAS: 14808-60-7 Crystalline Silica

PEL Long-term value: 0.05* mg/m³
 *resp. dust; 30mg/m³/%SiO₂+2
 REL Long-term value: 0.05* mg/m³
 *respirable dust; See Pocket Guide App. A
 TLV Long-term value: 0.025* mg/m³
 *respirable particulate matter, A2

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
 - **Appropriate engineering controls** No further data; see section 7.
 - **Personal protective equipment:**
 - **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.

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- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Not required**- Body protection:** Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties**- General Information****- Physical state**

Solid

- Color:

Bronze colored

- Odor:

Mild

- Odor threshold:

Not determined

- Melting point/Melting range:

Undetermined

- Boiling point/Boiling range:

> 315 °C (> 599 °F)

- Flammability:

Not determined

- Explosion limits:**- Lower:**

Not determined

- Upper:

Not determined

- Flash point:

≥ 150 °C (≥ 302 °F)

- Auto igniting:

> 300 °C (> 572 °F)

- Decomposition temperature:

Not determined

- pH-value:

Not applicable

- Viscosity:**- Kinematic:**

Not applicable

- Dynamic:

Not applicable

- Solubility in / Miscibility with**- Water:**

Soluble.

- Partition coefficient (n-octanol/water):

Not determined

- Vapor pressure:

Not applicable

- Vapor pressure:**- Density at 20 °C (68 °F):**

≥ 5.00196 – ≤ 5.04118 g/cm³ (≥ 41.74136 – ≤ 42.06865 lbs/gal)

- Relative density

Not determined

- Vapor density

Not applicable

- Particle characteristics

Not determined

- Other information**- Appearance:****- Form:**

Pasty

- Important information on protection of health and environment, and on safety.**- Ignition temperature:**

Product is not selfigniting.

- Danger of explosion:

Product does not present an explosion hazard.

- Solvent content:**- VOC content:**

0.00 %

- Solids content:

85.0 %

- Change in condition**- Evaporation rate**

Not applicable.

10 Stability and reactivity

- Reactivity No further relevant information available.**- Chemical stability****- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**- Possibility of hazardous reactions** No dangerous reactions known.**- Conditions to avoid** No further relevant information available.**- Incompatible materials:** No further relevant information available.

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- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**- **Acute toxicity:**- **LD/LC50 values that are relevant for classification:****ATE (Acute Toxicity Estimate)**

Oral LD50 71,429 mg/kg (rat)

CAS: 8001-78-3 Castor oil

Oral LD50 2,000 mg/kg (rat)

CAS: 106-14-9 Ioxiol g 21

Oral LD50 10,000 mg/kg (rat)

- **Primary irritant effect:**- **on the skin:** No irritant effect.- **on the eye:** No irritating effect.- **Sensitization:** No sensitizing effects known.- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Interactive effects** No interactive effects between components are known.- **Carcinogenic categories**- **IARC (International Agency for Research on Cancer)**

CAS: 14808-60-7 Crystalline Silica

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- **NTP (National Toxicology Program)**

CAS: 14808-60-7 Crystalline Silica

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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

- **Toxicity**- **Aquatic toxicity:** No further relevant information available.- **Persistence and degradability** No further relevant information available.- **Bioaccumulative potential** No further relevant information available.- **Mobility in soil** No further relevant information available.- **Results of PBT and vPvB assessment**- **PBT:** Not applicable- **vPvB:** Not applicable- **Other adverse effects**- **Additional ecological information:**- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Waste treatment methods**- **Recommendation:** Smaller quantities can be disposed of with household waste.- **Uncleaned packagings:**- **Recommendation:** Disposal must be made according to official regulations.- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**- **DOT, IMDG, IATA**

not regulated

- **UN proper shipping name**- **DOT, IMDG, IATA**

not regulated

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- Transport hazard class(es)	
- DOT, ADN, IMDG, IATA	
- Class	not regulated
- Packing group	
- DOT, IMDG, IATA	not regulated
- Environmental hazards:	Not applicable
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
- Special precautions for user	Not applicable
- UN "Model Regulation":	not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

- Sara

- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

CAS: 7440-50-8 | copper

- TSCA (Toxic Substances Control Act):

Paraffin wax	ACTIVE
Castor oil	ACTIVE
copper	ACTIVE
loxiol g 21	ACTIVE
sebacic acid	ACTIVE
molybdenum disulphide	ACTIVE
Crystalline Silica	ACTIVE

- Hazardous Air Pollutants

None of the ingredients is listed.

- Proposition 65

- Chemicals known to cause cancer:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Carcinogenic categories

- EPA (Environmental Protection Agency)

CAS: 7440-50-8 | copper D

- TLV (Threshold Limit Value)

CAS: 14808-60-7 | Crystalline Silica A2

- NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 14808-60-7 | Crystalline Silica

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

*16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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- Classification System:

- HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- NFPA ratings (scale 0 - 4)

0	1	0	Health = 0
			Fire = 1
			Reactivity = 0

- **Date of previous version** 12/09/2025

- **Version number of previous version:** 5

- **Date of preparation** 01/13/2026

- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute toxicity - oral 4: Acute toxicity – Category 4

Skin irritation 2: Skin corrosion/irritation – Category 2

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Carcinogenicity 1A: Carcinogenicity – Category 1A

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1

- *** Data compared to the previous version altered.**

- Disclaimer

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