

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 - Nickel
 - **Synonyms:** Nickel Anti-Seize Stick
- **Other means of identification**
 - **Part number:** 9218
- **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**



GHS08 Health hazard

Specific target organ toxicity (repeated exposure) 1 H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

Sensitization - skin 1

H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Nickel

- **Hazard statements**

H317 May cause an allergic skin reaction.

H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- 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 Combustible Dust	10 – 30%
CAS: 7440-02-0	Nickel Flammable solids 2, H228; Carcinogenicity 2, H351; Specific target organ toxicity (repeated exposure) 1, H372; Sensitization - skin 1, H317	≥ 1 – ≤ 10%
CAS: 8001-78-3	Castor oil Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H335	1 – 5%
CAS: 7429-90-5	aluminium powder (stabilized) Flammable solids 1, H228; Substances and mixtures which, in contact with water, emit flammable gases 2, H261	≥ 0.5 – ≤ 5%
CAS: 106-14-9	loxiol g 21 Skin irritation 2, H315; Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H335	0.5 – 1.5%

4 First-aid measures

- Description of first aid measures

- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:

Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

- After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- 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 contaminated material as waste according to section 13.
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.

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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/m ³
TLV	Long-term value: 2 mg/m ³
CAS: 7440-02-0 Nickel	
PEL	Long-term value: 1 mg/m ³
REL	Long-term value: 0.015 mg/m ³ as Ni; See Pocket Guide App. A
TLV	Long-term value: 1.5* mg/m ³ elemental, *inhalable fraction, A5, BEI
CAS: 7429-90-5 aluminium powder (stabilized)	
PEL	Long-term value: 15*; 5** mg/m ³ *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m ³ as Al; *as respirable fraction, A4
- Ingredients with biological limit values:	
CAS: 7440-02-0 Nickel	
BEI	5 µg/L Medium: urine Time: post-shift at end of workweek Parameter: Nickel (background)
	30 µg/L Medium: urine Time: post-shift at end of workweek Parameter: Nickel (background)

- **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:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
 - **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
 - **Protection of hands:**



Protective gloves

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.

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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.

- Body protection: Protective work clothing

9 Physical and chemical properties

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

Solid

- Color:

Silver grey

- 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:

76.5 – 93.5 %

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

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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: Sensitization possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- Interactive effects No interactive effects between components are known.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

CAS: 7440-02-0 Nickel

2B

- NTP (National Toxicology Program)

CAS: 7440-02-0 Nickel

R

- 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: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- 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: 7440-02-0 | Nickel

CAS: 7429-90-5 | aluminium powder (stabilized)

- TSCA (Toxic Substances Control Act):

Paraffin wax	ACTIVE
Nickel	ACTIVE
Castor oil	ACTIVE
aluminium powder (stabilized)	ACTIVE
loxiol g 21	ACTIVE
sebacic acid	ACTIVE
molybdenum disulphide	ACTIVE

- Hazardous Air Pollutants

None of the ingredients is listed.

- Proposition 65

- Chemicals known to cause cancer:

CAS: 7440-02-0 | Nickel

- 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)

None of the ingredients is listed.

- TLV (Threshold Limit Value)

CAS: 7440-02-0 | Nickel

A5

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

CAS: 7440-02-0 | Nickel

- 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:** 6

- **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

BEI: Biological Exposure Limit

Flammable solids 1: Flammable solids – Category 1

Flammable solids 2: Flammable solids – Category 2

Substances and mixtures which, in contact with water, emit flammable gases 2: Substances and mixtures which in contact with water emit flammable gases – Category 2

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

Sensitization - skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

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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