

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 09/18/2019

Reviewed on 09/18/2019

**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE® Anti-Seize
- **Synonyms:** 9071 Copper Anti-Seize Compound
- **Part number:** 9071
- **Application of the substance / the mixture** Lubricant

**- Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**  
ND Industries, Inc  
1000 North Crooks Road  
Clawson, MI 48017  
USA  
Telephone: +1-248-288-0000  
Email: info@ndindustries.com  
Website: www.ndindustries.com
- **Information department:** Product Safety Department
- **Emergency telephone number:**  
United States: 1-800-424-9300  
International: +1-703-527-3887

**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

**- Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



**- Other hazards**

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

**- Chemical characterization: Mixtures**

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

**- Dangerous components:**

CAS: 7440-50-8   copper	1 – 4%
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**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.
- **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.
- **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **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

- **Handling:**
  - **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

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

CAS: 7440-50-8 copper

PEL	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu

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

### - Exposure controls

#### - Personal protective equipment:

- **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.

#### - 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.

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- **Body protection:** Protective work clothing

## \* 9 Physical and chemical properties

<b>- Information on basic physical and chemical properties</b>	
<b>- General Information</b>	
<b>- Appearance:</b>	
<b>- Form:</b>	Pasty
<b>- Color:</b>	Bronze colored
<b>- Odor:</b>	Mild
<b>- Odor threshold:</b>	Not determined.
<b>- pH-value at 20 °C (68 °F):</b>	7
<b>- Change in condition</b>	
<b>- Melting point/Melting range:</b>	Undetermined.
<b>- Boiling point/Boiling range:</b>	Undetermined.
<b>- Flash point:</b>	215.5 °C (419.9 °F)
<b>- Flammability (solid, gaseous):</b>	Not determined.
<b>- Decomposition temperature:</b>	Not determined.
<b>- Auto igniting:</b>	Product is not selfigniting.
<b>- Danger of explosion:</b>	Product does not present an explosion hazard.
<b>- Explosion limits:</b>	
<b>- Lower:</b>	Not determined.
<b>- Upper:</b>	Not determined.
<b>- Vapor pressure:</b>	Not applicable.
<b>- Density at 20 °C (68 °F):</b>	≥ 7.83333 – ≤ 7.9 g/cm <sup>3</sup> (≥ 65.36914 – ≤ 65.9255 lbs/gal)
<b>- Relative density</b>	Not determined.
<b>- Vapor density</b>	Not applicable.
<b>- Evaporation rate</b>	Not applicable.
<b>- Solubility in / Miscibility with</b>	
<b>- Water:</b>	Insoluble.
<b>- Partition coefficient (n-octanol/water):</b>	Not determined.
<b>- Viscosity:</b>	
<b>- Dynamic at 20 °C (68 °F):</b>	100,000 mPas
<b>- Kinematic:</b>	Not applicable.
<b>- Solvent content:</b>	
<b>- VOC content:</b>	0.00 %
<b>- Solids content:</b>	100.0 %
<b>- Other information</b>	No further relevant information available.

## 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.

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
    - **Primary irritant effect:**
      - **on the skin:** No irritant effect.
      - **on the eye:** No irritating effect.
    - **Sensitization:** No sensitizing effects known.

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**- 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.

**- Carcinogenic categories****- IARC (International Agency for Research on Cancer)**

CAS: 14808-60-7	Crystalline Silica	1
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**- NTP (National Toxicology Program)**

CAS: 14808-60-7	Crystalline Silica	K
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**- OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information****- Toxicity****- Aquatic toxicity:** No further relevant information available.**- Persistence and degradability** No further relevant information available.**- Behavior in environmental systems:****- Bioaccumulative potential** No further relevant information available.**- Mobility in soil** No further relevant information available.**- 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.

**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- Other adverse effects** No further relevant information available.**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.**14 Transport information****- UN-Number****- DOT, IMDG, IATA** UN3077**- UN proper shipping name**

**- DOT** Environmentally hazardous substance, solid, n.o.s.  
**- IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper), MARINE POLLUTANT  
**- IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

**- Transport hazard class(es)****- DOT, IMDG, IATA**

**- Class** 9 Miscellaneous dangerous substances and articles  
**- Label** 9

**- Packing group****- DOT, IMDG, IATA** III**- Environmental hazards:**

**- Marine pollutant:** No  
 Yes (DOT)  
 Symbol (fish and tree)  
**- Special marking (IATA):** Symbol (fish and tree)

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<ul style="list-style-type: none"> <li>- <b>Special precautions for user</b></li> <li>- <b>Danger code (Kemler):</b></li> <li>- <b>EMS Number:</b></li> <li>- <b>Stowage Category</b></li> <li>- <b>Stowage Code</b></li> </ul>	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
<ul style="list-style-type: none"> <li>- <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>- <b>Transport/Additional information:</b></li> <li>- <b>DOT</b></li> <li>- <b>Quantity limitations</b></li> <li>- <b>Remarks:</b></li> </ul>	On passenger aircraft/rail: No limit On cargo aircraft only: No limit Special marking with the symbol (fish and tree).
<ul style="list-style-type: none"> <li>- <b>IMDG</b></li> <li>- <b>Limited quantities (LQ)</b></li> <li>- <b>Excepted quantities (EQ)</b></li> </ul>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
<ul style="list-style-type: none"> <li>- <b>UN "Model Regulation":</b></li> </ul>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER), 9, III

## 15 Regulatory information

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

All components have the value ACTIVE.

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

CAS: 14808-60-7 | Crystalline Silica

- **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

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- **TLV (Threshold Limit Value established by ACGIH)**

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.

- **Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affairs
- **Contact:** Safety, Health and Environmental Affairs

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**- Date of preparation / last revision** 09/18/2019 / 4**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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

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