

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

Printing date 04/30/2015

Reviewed on 04/30/2015

**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE® Anti-Seize
- **Synonyms:** 9071 Copper Anti-Seize Compound
- **Part number:** VT9071
- **Relevant identified uses of the substance or mixture** Threaded connection or slide anti-seize and lubrication

**- 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:**

|           |          |        |
|-----------|----------|--------|
| 7440-50-8 | copper   | 20-30% |
| 7782-42-5 | Graphite | 10-20% |

**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:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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:****7440-50-8 copper**PEL Long-term value: 1\* 0.1\*\* mg/m<sup>3</sup>  
as Cu \*dusts and mists \*\*fumeREL Long-term value: 1\* 0.1\*\* mg/m<sup>3</sup>  
as Cu \*dusts and mists \*\*fumeTLV Long-term value: 1\* 0.2\*\* mg/m<sup>3</sup>  
\*dusts and mists; \*\*fume; as Cu**7782-42-5 Graphite**PEL Long-term value: 15 mppcf\* mg/m<sup>3</sup>  
\*impinger samples counted by light field techn.REL Long-term value: 2.5\* mg/m<sup>3</sup>  
\*respirable dustTLV Long-term value: 2\* mg/m<sup>3</sup>  
all forms except graphite fibers;\*resp. fraction**- 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

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- **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.
- **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

|  |   |
|--|---|
| <b>- Information on basic physical and chemical properties</b> |   |
| <b>- General Information</b>                                   |   |
| <b>- Appearance:</b>   |   |
| - <b>Form:</b>   | Semi-solid                                    |
| - <b>Color:</b>  | Bronze colored                                |
| - <b>Odor:</b>   | Petroleum-like                                |
| - <b>Odour threshold:</b>                                      | Not determined.                               |
| - <b>pH-value:</b>   | Not applicable.                               |
| <b>- Change in condition</b>                                   |   |
| - <b>Melting point/Melting range:</b>                          | Undetermined.                                 |
| - <b>Boiling point/Boiling range:</b>                          | 260 °C (500 °F)                               |
| - <b>Flash point:</b>  | 221 °C (430 °F)                               |
| - <b>Flammability (solid, gaseous):</b>                        | Not determined.                               |
| <b>- Ignition temperature:</b>                                 |   |
| - <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>                             | 1.09 g/cm <sup>3</sup> (9.096 lbs/gal)        |
| - <b>Relative density</b>                                      | Not determined.                               |
| - <b>Vapour 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:</b>  | Not applicable.                               |
| - <b>Kinematic:</b>  | Not applicable.                               |
| <b>- Solvent content:</b>                                      |   |
| - <b>Organic solvents:</b>                                     | 0.0 %   |
| - <b>Solids content:</b>                                       | 100.0 %                                       |
| - <b>Other information</b>                                     | No further relevant information available.    |

## 10 Stability and reactivity

- **Reactivity**
- **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:

##### - 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.

#### - Carcinogenic categories

##### - IARC (International Agency for Research on Cancer)

|            |                 |  |   |
|------------|-----------------|--|---|
| 14808-60-7 | Silicon Dioxide |  | 1 |
|------------|-----------------|--|---|

##### - NTP (National Toxicology Program)

|            |                 |  |   |
|------------|-----------------|--|---|
| 14808-60-7 | Silicon Dioxide |  | K |
|------------|-----------------|--|---|

##### - 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             | NA3077        |
| - ADN, IMDG, IATA | not regulated |

### - UN proper shipping name

|                   |  |
|-------------------|--|
| - DOT             | Environmentally hazardous substances, solid, n.o.s. (copper) |
| - ADN, IMDG, IATA | not regulated  |

### - Transport hazard class(es)

#### - DOT



|                |   |
|----------------|---|
| - Class        | 9 Miscellaneous dangerous substances and articles |
| - Label        | 9   |
| - ADN/R Class: | not regulated                                     |

### - Packing group

|       |     |
|-------|-----|
| - DOT | III |
|-------|-----|

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|  |  |
|--|--|
| - <b>IMDG, IATA</b>  | not regulated  |
| - <b>Environmental hazards:</b>  | Not applicable.  |
| - <b>Marine pollutant:</b>   | Yes (DOT)  |
| - <b>Special precautions for user</b>  | Not applicable.  |
| - <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.  |
| - <b>Transport/Additional information:</b>                                       |  |
| - <b>DOT</b>   |  |
| - <b>Quantity limitations</b>  | On passenger aircraft/rail: No limit<br>On cargo aircraft only: No limit |
| - <b>Remarks:</b>  | Special marking with the symbol (fish and tree).                         |
| - <b>UN "Model Regulation":</b>  | -  |

**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):**

7440-50-8 copper

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**- **Chemicals known to cause cancer:**

14808-60-7 Silicon Dioxide

- **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)**

7440-50-8 copper

D

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

14808-60-7 Silicon Dioxide

A2

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

14808-60-7 Silicon Dioxide

- **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 Affaires
- **Contact:** Safety, Health and Environmental Affaires
- **Date of preparation / last revision** 04/30/2015 / -

- **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)  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative

- **Disclaimer**

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