

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/13/2017

Reviewed on 12/06/2016

### 1 Identification

**- Product identifier**

- **Trade name:** Vibra-TITE® Anti-Seize
- **Synonyms:** 9070 Aluminum Anti-Seize Compound
- **Part number:** VT9070

**- 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)**



Health = 0  
 Fire = 1  
 Reactivity = 2

The substance demonstrates unusual reactivity with water.

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



HEALTH 0 Health = 0  
 FIRE 1 Fire = 1  
 REACTIVITY 2 Reactivity = 2

**- 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:**

7429-90-5	aluminium powder (stabilised)	Flam. Sol. 1, H228; Water-react. 2, H261	10-19%
7782-42-5	Graphite		5-9%

### 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:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/13/2017

Reviewed on 12/06/2016

Trade name: Vibra-TITE® Anti-Seize

(Contd. of page 1)

**- Information for 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:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire fighting measures that suit the environment.

**- For safety reasons unsuitable extinguishing agents:** Water**- 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**

Wear protective equipment. Keep unprotected persons away.  
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:**

Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents  
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.

**- Protective Action Criteria for Chemicals****- PAC-1:**

None of the ingredients is listed.

**- PAC-2:**

None of the ingredients is listed.

**- PAC-3:**

None of the ingredients is listed.

## 7 Handling and storage

**- Handling:**

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

**- 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:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

**- 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.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/13/2017

Reviewed on 12/06/2016

Trade name: Vibra-TITE® Anti-Seize

(Contd. of page 2)

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

7429-90-5 aluminium powder (stabilised)	
PEL	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
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 dust
TLV	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

**- 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****- Appearance:**

<b>- Form:</b>	Pasty
<b>- Color:</b>	Silver-colored
<b>- Odor:</b>	Petroleum-like
<b>- Odor threshold:</b>	Not determined.

**- pH-value at 20 °C (68 °F):** 7

**- Change in condition**

<b>- Melting point/Melting range:</b>	Undetermined.
<b>- Boiling point/Boiling range:</b>	316 °C (601 °F)

**- Flash point:** 221 °C (430 °F)

**- Flammability (solid, gaseous):** Contact with water liberates extremely flammable gases.

**- Ignition temperature:** 400 °C (752 °F)

**- Decomposition temperature:** Not determined.

**- Auto igniting:** Product is not selfigniting.

**- Danger of explosion:** Product does not present an explosion hazard.

**- Explosion limits:**

<b>- Lower:</b>	Not determined.
<b>- Upper:</b>	Not determined.

**- Vapor pressure:** Not applicable.

<b>- Density at 20 °C (68 °F):</b>	1.13 g/cm <sup>3</sup> (9.43 lbs/gal)
<b>- Relative density</b>	Not determined.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/13/2017

Reviewed on 12/06/2016

Trade name: Vibra-TITE® Anti-Seize

(Contd. of page 3)

- <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:</b>	Not applicable.
- <b>Kinematic:</b>	Not applicable.
- <b>Solvent content:</b>	
- <b>Organic solvents:</b>	0.0 %
- <b>VOC content:</b>	0.0 g/l / 0.00 lb/gl
- <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** Contact with water releases flammable gases.
- **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.
  - **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)

None of the ingredients is listed.

### - NTP (National Toxicology Program)

None of the ingredients is listed.

### - 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.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/13/2017

Reviewed on 12/06/2016

Trade name: Vibra-TITE® Anti-Seize

(Contd. of page 4)

## 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

- <b>UN-Number</b> - DOT, ADN, IMDG, IATA	not regulated
- <b>UN proper shipping name</b> - DOT, ADN, IMDG, IATA	not regulated
- <b>Transport hazard class(es)</b> - DOT, ADN, IMDG, IATA - Class	not regulated
- <b>Packing group</b> - DOT, IMDG, IATA	not regulated
- <b>Environmental hazards:</b> - Marine pollutant:	No
- <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>UN "Model Regulation":</b>	not regulated

## \*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):

7429-90-5 aluminium powder (stabilised)

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

aluminium powder (stabilised)

Graphite

#### - 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)

None of the ingredients is listed.

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

7429-90-5 aluminium powder (stabilised)

A4

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

None of the ingredients is listed.

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

(Contd. on page 6)

# Safety Data Sheet

*acc. to OSHA HCS*

Printing date 01/13/2017

Reviewed on 12/06/2016

**Trade name:** Vibra-TITE® Anti-Seize

(Contd. of page 5)

## 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** 01/13/2017 / 14

- **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 & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Sol. 1: Flammable solids – Category 1

Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2

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

- **Disclaimer**

The information set forth is based on information that ND Industries, Incorporated believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and ND Industries Inc. assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

®ND and ND Industries, Inc. are registered trademarks of ND Industries Incorporated,

®Vibra-TITE is a registered trademark of ND Industries, Inc.