



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: 9070 Aluminum Anti-Seize Compound

- Part number: VT9070

- Relevant identified uses of the substance or mixture Threaded connection or slide aniti-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



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

- Label elements

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



- Signal word Warning
- Hazard-determining components of labeling: titanium dioxide
- Soapstone
- Hazard statements
- H351 Suspected of causing cancer.
- Precautionary statements
- P280 Wear protective gloves / eye protection / face protection.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Classification system:

- NFPA ratings (scale 0 - 4)



The substance demonstrates unusual reactivity with water.

- HMIS-ratings (scale 0 - 4)

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

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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)	10-20%
7782-42-5	Graphite	1-5%
471-34-1	calcium carbonate	1-5%
1314-13-2	zinc oxide	1-5%
13463-67-7	titanium dioxide	1-5%
14807-96-6	Soapstone	≤ 1.00%

4 First-aid measures

Description of first aid measures

- 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.
- 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- CO2, 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:

Inform respective authorities in case of seepage into water course or sewage system. 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.

7 Handling and storage

- Handling:

 Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges. (Contd. of page 1)

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- 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.

- Control parameters

- Components with limit values that require monitoring at the workplace:				
	-90-5 aluminium powder (stabilised)			
PEL	Long-term value: 15*; 15** 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			
7782	-42-5 Graphite			
	Long-term value: 15 mppcf* mg/m ³ *impinger samples counted by light field techn.			
REL	Long-term value: 2.5* mg/m ³ *respirable dust			
TLV	Long-term value: 2* mg/m ³ all forms except graphite fibers;*resp. fraction			
471-:	34-1 calcium carbonate			
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction			
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction			
TLV	TLV withdrawn			
1314	-13-2 zinc oxide			
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction and fume			
REL	Short-term value: 10** mg/m ³ Long-term value: 5* 5** mg/m ³ Ceiling limit value: 15* mg/m ³ *dust only **fume			
TLV	Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *as respirable fraction			
1346	3-67-7 titanium dioxide			
PEL	Long-term value: 15* mg/m ³ *total dust			
REL	See Pocket Guide App. A			
TLV	Long-term value: 10 mg/m ³ withdrawn from NIC			
1480	14807-96-6 Soapstone			
PEL	Long-term value: 20 mppcf ppm (containing <1% Quartz)			
REL	Long-term value: 2* mg/m ³ *respirable dust			
TLV	Long-term value: 2* mg/m ³ *as respirable fraction; E			
	- Additional information: The lists that were valid during the creation were used as basis.			

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures: Wash hands before breaks and at the end of work.

- 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

o r hysical and chemical properties		
- Information on basic physical and chemical properties - General Information		
- Appearance:	• · · · · ·	
- Form:	Semi-solid	
- Color:	Silver-colored	
- Odor:	Petroleum-like	
- Odour threshold:	Not determined.	
- pH-value at 20 °C (68 °F):	7	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 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:	Not determined.	
- Explosion limits: - Lower: - Upper:	Not determined. Not determined.	
- Vapor pressure:	Not applicable.	
 Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate 	1.13 g/cm ³ (9.43 lbs/gal) Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with Water: 	Insoluble.	
- Partition coefficient (n-octanol/wa	ater): Not determined.	
- Viscosity: - Dynamic: - Kinematic:	Not applicable. Not applicable.	
 Solvent content: Organic solvents: 	0.0 %	
- Solids content: - Other information	100.0 % 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 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.

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Toxicol	u leaino	f		
	ogical li	itormation		
Informat	tion on tr	oxicological effects		
	e toxicity	-		
	-	alues that are relevant for clas	ssification:	
471-34-1 (calcium ca	arbonate		
Oral	LD50	6450 mg/kg (rat)		
1314-13-2	zinc oxid	e		
Oral	LD50	> 5000 mg/kg (rat)		
13463-67-	7 titanium			
Oral	LD50	>20000 mg/kg (rat)		
Dermal	LD50	>10000 mg/kg (rabbit)		
		>6.82 mg/l (rat)		
- P		ritant effect:		
		skin: No irritant effect.		
- 5		eye: No irritating effect.		
		cicological information:		
		nic categories		
40400.07	-	nternational Agency for Research	-	0
13463-67-				28
14807-96-	· ·			28
	-	ational Toxicology Program)		
None of th	ne ingredie	nts is listed.		
	- OSHA-	Ca (Occupational Safety & He	alth Administration)	
None of th	ne ingredie	nts is listed.		
		rmation		
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not regulated	
not regulated	
No	
Not applicable.	
MARPOL73/78	
Not applicable.	
_	
	not regulated No Not applicable. MARPOL73/78 Not applicable.

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

- Sara

- Section 355 (extremely hazardous substances):			
None of the ingredients is listed.	None of the		
- Section 313 (Specific toxic chemical listings):			
7429-90-5 aluminium powder (stabilised)	7429-90-5		
1314-13-2 zinc oxide	1314-13-2		
- TSCA (Toxic Substances Control Act):			
All ingredients are listed.	All ingredie		
- Proposition 65	- Pr		
- Chemicals known to cause cancer:			

13463-67-7 titanium 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)			
1314-13-2	inc oxide	D, I, II		
-	- TLV (Threshold Limit Value established by ACGIH)			
7429-90-5	aluminium powder (stabilised)	A4		
13463-67-7	titanium dioxide	A4		
14807-96-6	Soapstone	A4		
- NIOSH-Ca (National Institute for Occupational Safety and Health)				
13463-67-7 titanium dioxide				

13463-67-7 | titanium 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)
- LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Carc. 2: Carcinogenicity, Hazard Category 2

- Disclaimer

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