

**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® Thread Sealant
- **Synonyms:** 486 Multi-Purpose Thread Sealant
- **Part number:** VT486

- **Relevant identified uses of the substance or mixture** Thread sealant

- 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**

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

- Label elements

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

- Hazard pictograms

GHS02 GHS08

- Signal word Danger**- Hazard-determining components of labeling:**

Soapstone
ethanol

- Hazard statements

H225 Highly flammable liquid and vapor.

H350 May cause cancer.

- Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P280 Wear protective gloves / eye protection / face protection.
- P240 Ground/bond container and receiving equipment.
- P233 Keep container tightly closed.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/30/2015

Reviewed on 04/30/2015

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 1)

- 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:

14807-96-6	Soapstone	30-40%
64-17-5	ethanol	10-20%
	Binding agent	5-10%
	Titanium dioxide	1-5%

4 First-aid measures

- Description of first aid measures

- **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. Then consult a doctor.
- **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.

- For safety reasons unsuitable extinguishing agents: Water with full jet**- 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:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/30/2015

Reviewed on 04/30/2015

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 2)

* 7 Handling and storage

- Handling:

- 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: Store in a cool location.

- 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:

- Control parameters

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

64-17-5 ethanol

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
-----	--

REL	Long-term value: 1900 mg/m ³ , 1000 ppm
-----	--

TLV	Short-term value: 1880 mg/m ³ , 1000 ppm
-----	---

Titanium dioxide

PEL	Long-term value: 15 mg/m ³
-----	---------------------------------------

TLV	Long-term value: 10 mg/m ³
-----	---------------------------------------

- 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.

- Breathing equipment: Not required.

- 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.

- 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:



Tightly sealed goggles

- Body protection: Protective work clothing

* 9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

- Form:

Viscous

- Color:

Whitish

- Odor:

Characteristic

- Odour threshold:

Not determined.

- pH-value:

Not determined.

- Change in condition

- Melting point/Melting range:

Undetermined.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/30/2015

Reviewed on 04/30/2015

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 3)

- Boiling point/Boiling range:	78 °C (172 °F)
- Flash point:	13 °C (55 °F)
- Flammability (solid, gaseous):	Not applicable.
- Ignition temperature:	425 °C (797 °F)
- Decomposition temperature:	Not determined.
- Auto igniting:	Product is not selfigniting.
- Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- Explosion limits:	
- Lower:	3.5 Vol %
- Upper:	15.0 Vol %
- Vapor pressure at 20 °C (68 °F):	59 hPa (44 mm Hg)
- Density:	Not determined.
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water):	Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
- Organic solvents:	20.0 %
- VOC content:	20.0 % 200.0 g/l / 1.67 lb/gl
- Solids content:	50.0 %
- Other information	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.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

64-17-5 ethanol		
Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4 h	20000 mg/l (rat)
Titanium dioxide		
Oral	LD50	24000 mg/kg (rat)
Dermal	LD50	10000 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/30/2015

Reviewed on 04/30/2015

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 4)

- Additional toxicological information:**- Carcinogenic categories****- IARC (International Agency for Research on Cancer)**

14807-96-6	Soapstone	2B
64-17-5	ethanol	1
9002-84-0	Polytetrafluoroethylene	3

- 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.**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.***14 Transport information****- UN-Number****- DOT**

UN1993

- IMDG, IATA

UN1170

- UN proper shipping name**- DOT**

Flammable liquids, n.o.s. (Ethanol)

- IMDG

ETHANOL (ETHYL ALCOHOL) mixture

- IATA

ETHANOL mixture

- Transport hazard class(es)**- DOT****- Class**

3 Flammable liquids

- Label

3

- IMDG, IATA**- Class**

3 Flammable liquids

- Label

3

- Packing group**- DOT, IMDG, IATA**

II

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/30/2015

Reviewed on 04/30/2015

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 5)

- Environmental hazards:	
- Marine pollutant:	No
- Special precautions for user	Warning: Flammable liquids
- Danger code (Kemler):	33
- EMS Number:	F-E,S-D
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
- IMDG	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN1170, Ethanol mixture, 3, II

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):

None of the ingredients is listed.

- TSCA (Toxic Substances Control Act):

Soapstone

Castor oil

ethanol

Polytetrafluoroethylene

- 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:

64-17-5 ethanol

- Carcinogenic categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)

14807-96-6 Soapstone

A4

64-17-5 ethanol

A3

- 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.

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

- Date of preparation / last revision 04/30/2015 / 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)
(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/30/2015

Reviewed on 04/30/2015

Trade name: Vibra-TITE® Thread Sealant

(Contd. of page 6)

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Carc. 1A: Carcinogenicity, Hazard Category 1A

- * 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.