

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

Printing date 03/06/2019

Reviewed on 03/05/2019

**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE®
- **Synonyms:** VC-5
- **Part number:** VT218
- **Application of the substance / the mixture** Thread Locking

**- 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.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

**- Label elements**

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

**- Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

**- Hazard-determining components of labeling:**

maleic acid

**- Hazard statements**

H225 Highly flammable liquid and vapor.  
H317 May cause an allergic skin reaction.

**- Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P280 Wear protective gloves.
- P302+P352 If on skin: Wash with plenty of water.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 03/05/2019

Trade name: Vibra-TITE®

P403+P235  
P501Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

(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:**

CAS: 107-87-9	Methyl propyl ketone Flam. Liq. 2, H225; Acute Tox. 4, H302	60 – 69%
CAS: 9003-63-8	Acrylic Polymer Combustible Dust	10 – 19%
CAS: 110-16-7	maleic acid Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	≤ 1%

### 4 First-aid measures

**- Description of first aid measures****- After inhalation:**

Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.  
Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **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:**

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.

- **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).

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 03/05/2019

Trade name: Vibra-TITE®

(Contd. of page 2)

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:**

**- Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
No special precautions are necessary if used correctly.

**- 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:** No further data; see item 7.

**- Control parameters**

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

**CAS: 107-87-9 Methyl propyl ketone**

PEL	Long-term value: 700 mg/m <sup>3</sup> , 200 ppm
REL	Long-term value: 530 mg/m <sup>3</sup> , 150 ppm
TLV	Short-term value: 529 mg/m <sup>3</sup> , 150 ppm

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

**- Exposure controls**

**- Personal protective equipment:**

**- General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.

**- Breathing equipment:**

Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**- 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.

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.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 03/05/2019

Trade name: Vibra-TITE®

(Contd. of page 3)

**- Eye protection:**

Tightly sealed goggles

**- 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>	Viscous
<b>- Color:</b>	Red
<b>- Odor:</b>	Characteristic
<b>- Odor threshold:</b>	Not determined.
<b>- pH-value:</b>	Not determined.
<b>- Change in condition</b>	
<b>- Melting point/Melting range:</b>	Undetermined.
<b>- Boiling point/Boiling range:</b>	≥ 101.7 °C (≥ 215.1 °F)
<b>- Flash point:</b>	7 °C (44.6 °F)
<b>- Flammability (solid, gaseous):</b>	Not applicable.
<b>- Ignition temperature:</b>	505 °C (941 °F)
<b>- Decomposition temperature:</b>	Not determined.
<b>- Auto igniting:</b>	Product is not selfigniting.
<b>- Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
<b>- Explosion limits:</b>	
<b>- Lower:</b>	1.5 Vol %
<b>- Upper:</b>	8.2 Vol %
<b>- Vapor pressure at 20 °C (68 °F):</b>	≤ 16 hPa (≤ 12 mm Hg)
<b>- Density:</b>	
<b>- Relative density</b>	Not determined.
<b>- Vapor density</b>	Not determined.
<b>- Evaporation rate</b>	Not determined.
<b>- Solubility in / Miscibility with</b>	
<b>- Water:</b>	Not miscible or difficult to mix.
<b>- Partition coefficient (n-octanol/water):</b> Not determined.	
<b>- Viscosity:</b>	
<b>- Dynamic:</b>	Not determined.
<b>- Kinematic:</b>	Not determined.
<b>- Solvent content:</b>	
<b>- Organic solvents:</b>	68.0 %
<b>- VOC content:</b>	68.02 %
	680.2 g/l / 5.68 lb/gal
<b>- Solids content:</b>	27.2 %
<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:**
  - Aldehyde

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 03/05/2019

Trade name: Vibra-TITE®

Hydrocarbons

(Contd. of page 4)

## 11 Toxicological information

### - Information on toxicological effects

#### - Acute toxicity:

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

#### ATE (Acute Toxicity Estimate)

Oral	LD50	2,301 mg/kg (rat)
------	------	-------------------

#### CAS: 107-87-9 Methyl propyl ketone

Oral	LD50	1,600 mg/kg (rat)
------	------	-------------------

Dermal	LD50	6,500 mg/kg (rabbit)
--------	------	----------------------

#### CAS: 110-16-7 maleic acid

Oral	LD50	708 mg/kg (rat)
------	------	-----------------

Dermal	LD50	1,560 mg/kg (rabbit)
--------	------	----------------------

#### - Primary irritant effect:

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

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

- **Sensitization:** Sensitization possible through skin contact.

#### - Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

#### - Carcinogenic categories

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

CAS: 108-88-3	toluene	3
---------------	---------	---

CAS: 111-76-2	2-butoxyethanol	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, IMDG, IATA**

UN1139

### - UN proper shipping name

- **DOT**

Coating solution

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 03/05/2019

Trade name: Vibra-TITE®

(Contd. of page 5)

- <b>IMDG, IATA</b>	COATING SOLUTION
- <b>Transport hazard class(es)</b>	
- <b>DOT</b>	
	
- <b>Class</b>	3 Flammable liquids
- <b>Label</b>	3
- <b>IMDG, IATA</b>	
	
- <b>Class</b>	3 Flammable liquids
- <b>Label</b>	3
- <b>Packing group</b>	
- <b>DOT, IMDG, IATA</b>	II
- <b>Environmental hazards:</b>	
- <b>Marine pollutant:</b>	No
- <b>Special precautions for user</b>	Warning: Flammable liquids
- <b>Danger code (Kemler):</b>	33
- <b>EMS Number:</b>	F-E,S-E
- <b>Stowage Category</b>	E
- <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: 1 L On cargo aircraft only: 30 L
- <b>IMDG</b>	
- <b>Limited quantities (LQ)</b>	500 ml
- <b>Excepted quantities (EQ)</b>	Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml
- <b>UN "Model Regulation":</b>	UN 1139 COATING SOLUTION, 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):**

CAS: 108-88-3 toluene

CAS: 111-76-2 2-butoxyethanol

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

All ingredients are listed.

- **TSCA new (21st Century Act): (Substances not listed)**

CAS: 9003-63-8 Acrylic Polymer

- **Hazardous Air Pollutants**

CAS: 108-88-3 toluene

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 03/05/2019

Trade name: Vibra-TITE®

(Contd. of page 6)

<b>- Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients is listed.		
<b>- Chemicals known to cause reproductive toxicity for males:</b>		
None of the ingredients is listed.		
<b>- Chemicals known to cause developmental toxicity:</b>		
CAS: 108-88-3	toluene	
<b>- Carcinogenic categories</b>		
<b>- EPA (Environmental Protection Agency)</b>		
CAS: 108-88-3	toluene	II
CAS: 111-76-2	2-butoxyethanol	NL
<b>- TLV (Threshold Limit Value established by ACGIH)</b>		
CAS: 108-88-3	toluene	A4
CAS: 111-76-2	2-butoxyethanol	A3
<b>- NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		
<b>- Chemical safety assessment:</b> 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** 03/06/2019 / 17

- **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)

HMS: 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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- \* **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.