

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

Printing date 10/07/2022

Reviewed on 10/07/2022

**1 Identification****- Product identifier**

- **Trade name:** Vibra-TITE® SuperGlue
- **Synonyms:** 301 Surface Insensitive - General Purpose - Clear
- **Part number:** VT301
- **Application of the substance / the mixture** Adhesives

**- 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  
Product Safety Department

**- Emergency telephone number:**

United States: 1-800-424-9300  
International: +1-703-527-3887  
For 24-hour Emergency Response Information, call 1-866-519-4752  
Customer Code: 335514

**2 Hazard(s) identification****- Classification of the substance or mixture**

GHS07

Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.
Flammable Liquids 4	H227 Combustible liquid.

**- Label elements**

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

**- Hazard pictograms**

GHS07

- **Signal word** Warning

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

ethyl 2-cyanoacrylate

**- Hazard statements**

H227 Combustible liquid.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**- Precautionary statements**

P210	Keep away from flames and hot surfaces. – No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.

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- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 P312 Call a poison center/doctor if you feel unwell.  
 P321 Specific treatment (see on this label).  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- Information pertaining to particular dangers for man and environment:**

Cyanacrylate. DANGER. Glues skin and eyelids within seconds. Should be kept out of children's reach.

**- 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: 7085-85-0	ethyl 2-cyanoacrylate Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	90 – 100%
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### 4 First-aid measures

**- Description of first aid measures**

**- After inhalation:**

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. If symptoms persist, consult a doctor.

- **After swallowing:** Call a doctor immediately.

**- Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** Breathing difficulty
- **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.

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

- **Special hazards arising from the substance or mixture** Nitrogen oxides (NO<sub>x</sub>)

**- 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:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Allow to solidify. Pick up mechanically.  
 Ensure adequate ventilation.  
 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.

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See Section 13 for disposal information.

## 7 Handling and storage

### - Handling:

#### - Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

- **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:

Store in a cool location.  
Store only in the original receptacle.

- **Information about storage in one common storage facility:** Store away from oxidizing agents.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **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:

CAS: 7085-85-0 ethyl 2-cyanoacrylate

TLV	Short-term value: 1 ppm Long-term value: 0.2 ppm DSEN, RSEN
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- **Additional information:** The lists that were valid during the creation were used as basis.

### - Exposure controls

#### - Personal protective equipment:

##### - General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

##### - Breathing equipment:

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.  
Not necessary if room is well-ventilated.

##### - 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.

- **Not suitable are gloves made of the following materials:** PVC gloves

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### - Information on basic physical and chemical properties

#### - General Information

##### - Appearance:

- **Form:**

Liquid

- **Color:**

Clear

- **Odor:**

Characteristic

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- <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>	≥ 60 °C (≥ 140 °F)
- <b>Flash point:</b>	87 °C (188.6 °F)
- <b>Flammability (solid, gaseous):</b>	Not applicable.
- <b>Decomposition temperature:</b>	Not determined.
- <b>Auto igniting:</b>	Product is not selfigniting.
- <b>Danger of explosion:</b>	Not determined.
- <b>Explosion limits:</b>	
- <b>Lower:</b>	Not determined.
- <b>Upper:</b>	Not determined.
- <b>Vapor pressure:</b>	Not determined.
- <b>Density at 20 °C (68 °F):</b>	~ 1.05 g/cm <sup>3</sup> (~ 8.76225 lbs/gal)
- <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 at 20 °C (68 °F):</b>	105 mPas
- <b>Kinematic:</b>	Not determined.
- <b>Solvent content:</b>	
- <b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal
- <b>Solids content:</b>	0.0 %
- <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** 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:**
    - **Primary irritant effect:**
      - **on the skin:** Irritant to skin and mucous membranes.
      - **on the eye:** Irritating effect.
    - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
  - **Carcinogenic categories**

- <b>IARC (International Agency for Research on Cancer)</b>	
CAS: 123-31-9	hydroquinone
CAS: 9011-14-7	PMMA

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<b>- NTP (National Toxicology Program)</b>
None of the ingredients is listed.

<b>- OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
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:** Not hazardous for water.

**- 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**

NA1993

- **ADN, IMDG, IATA**

not regulated

**- UN proper shipping name**

- **DOT**

COMBUSTIBLE LIQUID, N.O.S

- **ADN, IMDG, IATA**

not regulated

**- Transport hazard class(es)**

- **DOT**



- **Class**

3 Combustible liquids

- **Label**

3

- **ADN/R Class:**

not regulated

**- Packing group**

- **DOT**

III

- **IMDG, IATA**

not regulated

**- Environmental hazards:**

- **Marine pollutant:**

No

**- Special precautions for user**

Not applicable.

**- 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: 60 L

On cargo aircraft only: 220 L

**- UN "Model Regulation":**

not regulated

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## 15 Regulatory information

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

No further relevant information available.

#### - Sara

#### - Section 355 (extremely hazardous substances):

CAS: 123-31-9 hydroquinone

#### - Section 313 (Specific toxic chemical listings):

CAS: 123-31-9 hydroquinone

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

All components have the value ACTIVE.

#### - Hazardous Air Pollutants

CAS: 123-31-9 hydroquinone

#### - 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)

CAS: 109-63-7 diethyl ether--boron trifluoride

I (oral)

#### - TLV (Threshold Limit Value)

CAS: 123-31-9 hydroquinone

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 Affaires

- **Contact:** Safety, Health and Environmental Affaires

### - Classification System:

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

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

#### - NFPA ratings (scale 0 - 4)

2	2	0	Health = 2
2	2	0	Fire = 2
2	2	0	Reactivity = 0

- **Date of preparation / last revision** 10/07/2022 / 58

### - Abbreviations and acronyms:

ADR: Accord relatif au transport international 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  
 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)  
 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

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Flammable Liquids 4: Flammable liquids – Category 4  
Skin Irritation 2: Skin corrosion/irritation – Category 2  
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

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

- **Disclaimer**

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**1 Identification****- Product identifier**

- **Trade name:** Vibra-TITE® Anti-Seize
- **Synonyms:** 9072 Nickel Anti-Seize
- **Part number:** VT9072
- **Application of the substance / the mixture** Lubricant

**- 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

Carcinogenicity 1B H350 May cause cancer.



GHS07

Sensitization - Skin 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**

GHS07 GHS08

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

Lubricating greases  
Nickel

**- Hazard statements**

H317 May cause an allergic skin reaction.  
H350 May cause cancer.

**- Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
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.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
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.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



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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:**

CAS: 74869-21-9	Lubricating greases Carcinogenicity 1B, H350	70 – 79%
CAS: 7440-02-0	Nickel Flammable Solids 2, H228; Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 1, H372; Sensitization - Skin 1, H317	10 – 19%
CAS: 7782-42-5	Graphite Eye Irritation 2A, H319	5 – 9%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **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.
- **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:** 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 contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
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.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.

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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:** 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:**

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: 7440-02-0 Nickel	
PEL	Long-term value: 1 mg/m <sup>3</sup>
REL	Long-term value: 0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A
TLV	Long-term value: 1.5* mg/m <sup>3</sup> elemental, *inhalable fraction, A5, BEI
- Ingredients with biological limit values:	
CAS: 7440-02-0 Nickel	
BEI	5 µg/L Medium: urine Time: post-shift at end of workweek Parameter: Nickel (background)
	30 µg/L Medium: urine Time: post-shift at end of workweek Parameter: Nickel (background)

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

**- Exposure controls**

**- Personal protective equipment:**

**- General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

**- Breathing equipment:**

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.

**- Eye protection:**



Tightly sealed goggles

**- Body protection:** Protective work clothing

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## 9 Physical and chemical properties

<b>- Information on basic physical and chemical properties</b>	
<b>- General Information</b>	
<b>- Appearance:</b>	
- Form:	Pasty
- Color:	Silver grey
- Odor:	Petrol-like
- Odor threshold:	Not determined.
- pH-value at 20 °C (68 °F):	7
<b>- Change in condition</b>	
- Melting point/Melting range:	> 232 °C (> 449.6 °F)
- Boiling point/Boiling range:	≥ 2,730 °C (≥ 36.930 °F)
- Flash point:	> 232 °C (> 449.6 °F)
- Flammability (solid, gaseous):	Not applicable.
- Decomposition temperature:	Not determined.
- Auto igniting:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
<b>- Explosion limits:</b>	
- Lower:	Not determined.
- Upper:	Not determined.
- Vapor pressure:	Not determined.
- Density at 20 °C (68 °F):	~ 1.145 g/cm <sup>3</sup> (~ 9.55503 lbs/gal)
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
<b>- Solubility in / Miscibility with</b>	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water):	Not determined.
<b>- Viscosity:</b>	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
<b>- Solvent content:</b>	
- VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
- Solids content:	19.0 %
- Other information	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:** 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:** Sensitization possible through skin contact.

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**- Additional toxicological information:**

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

Irritant  
Carcinogenic.**- Carcinogenic categories****- IARC (International Agency for Research on Cancer)**

CAS: 7440-02-0 Nickel 2B

**- NTP (National Toxicology Program)**

CAS: 7440-02-0 Nickel R

**- 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 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.**- 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** not regulated**- UN proper shipping name****- DOT, IMDG, IATA** not regulated**- Transport hazard class(es)****- DOT, ADN, IMDG, IATA**  
**- Class** not regulated**- Packing group****- DOT, IMDG, IATA** not regulated**- Environmental hazards:****- Marine pollutant:** No**- Special precautions for user**

Not applicable.

**- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**- UN "Model Regulation":**

not regulated

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 09/23/2022

Trade name: Vibra-TITE® Anti-Seize

(Contd. of page 5)

## 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: 7440-02-0 | Nickel

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

Nickel

ACTIVE

Graphite

ACTIVE

##### - Hazardous Air Pollutants

None of the ingredients is listed.

##### - Proposition 65

##### - Chemicals known to cause cancer:

CAS: 7440-02-0 | Nickel

##### - 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)

CAS: 7440-02-0 | Nickel

A5

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

CAS: 7440-02-0 | Nickel

##### - National regulations:

##### - Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

##### - 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

##### - Classification System:

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

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

##### - NFPA ratings (scale 0 - 4)

0	1	0	Health = 0
			Fire = 1
			Reactivity = 0

##### - Date of preparation / last revision 10/07/2022 / 59

##### - Abbreviations and acronyms:

ADR: Accord relatif au transport international 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  
 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)  
 VOC: Volatile Organic Compounds (USA, EU)

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 09/23/2022

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

(Contd. of page 6)

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  
BEI: Biological Exposure Limit  
Flammable Solids 2: Flammable solids – Category 2  
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
Sensitization - Skin 1: Skin sensitisation – Category 1  
Carcinogenicity 1B: Carcinogenicity – Category 1B  
Carcinogenicity 2: Carcinogenicity – Category 2  
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

- \* **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.

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

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

Printing date 10/07/2022

Reviewed on 10/07/2022

**1 Identification****- Product identifier**

- **Trade name:** Vibra-TITE® Threadlocker
- **Synonyms:** 135 Permanent Strength Gel Threadlocker
- **Part number:** VT135
- **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**

GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure 2

H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3

H335 May cause respiratory irritation.

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

GHS07 GHS08

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

methacrylic acid, monoester with propane-1,2-diol  
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate  
dimethylbenzyl hydroperoxide  
octadecyl methacrylate  
2'-phenylacetohydrazide

**- Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.

**- Precautionary statements**

P201 Obtain special instructions before use.

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 1)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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.
P280	Wear eye protection / face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**- 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: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	30 – 39%
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol Eye Irritation 2A, H319; Sensitization - Skin 1, H317	20 – 29%
	Acrylic polymer Combustible Dust	10 – 19%
CAS: 80-15-9	dimethylbenzyl hydroperoxide Self-reactive substances and mixtures - Type F, H242; Organic Peroxides - Type E, H242; Acute Toxicity - Inhalation 3, H331; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	1 – 4%
CAS: 32360-05-7	octadecyl methacrylate Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	≤ 1%
CAS: 114-83-0	2'-phenylacetohydrazide Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	≤ 1%
CAS: 98-82-8	cumene Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	≤ 1%

### 4 First-aid measures

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

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. If symptoms persist, 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.

(Contd. on page 3)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 2)

## 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.
- **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:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
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:** 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:**  
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:**  
At this time, the other constituents have no known exposure limits.

### CAS: 80-15-9 dimethylbenzyl hydroperoxide

WEEL	Long-term value: 6 mg/m <sup>3</sup> , 1 ppm Skin
------	--

### CAS: 98-82-8 cumene

PEL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm Skin
REL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm Skin
TLV	Long-term value: 5 ppm A3

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

- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 3)

Avoid contact with the eyes and skin.

**- 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.

**- Eye protection:** Required use of safety glasses**- Body protection:** Protective work clothing

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties****- General Information****- Appearance:****- Form:**

Fluid

**- Color:**

Red

**- Odor:**

Characteristic

**- Odor threshold:**

Not determined.

**- pH-value:**

Not determined.

**- Change in condition****- Melting point/Melting range:**

Undetermined.

**- Boiling point/Boiling range:**

≥ 200 °C (≥ 392 °F)

**- Flash point:**

95 °C (203 °F)

**- Flammability (solid, gaseous):**

Not applicable.

**- Decomposition temperature:**

Not determined.

**- Auto igniting:**

Product is not selfigniting.

**- Danger of explosion:**

Product does not present an explosion hazard.

**- Explosion limits:****- Lower:**

Not determined.

**- Upper:**

Not determined.

**- Vapor pressure at 20 °C (68 °F):**

≤ 0.1 hPa

**- Density at 20 °C (68 °F):**~ 1.1 g/cm<sup>3</sup> (~ 9.1795 lbs/gal)**- Relative density**

Not determined.

**- Vapor 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:**

0.9 %

**- Water:**

0.4 %

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 4)

- <b>VOC content:</b>	0.90 % ~ 9.9 g/l / ~ 0.08 lb/gal
- <b>Solids content:</b>	67.3 %
- <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
  - Hydrocarbons

## 11 Toxicological information

### - Information on toxicological effects

#### - Acute toxicity:

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

##### ATE (Acute Toxicity Estimate)

Oral	LD50	23,935 mg/kg (rat)
Dermal	LD50	31,328 mg/kg (rat)
Inhalative	LC50/4 h	13,784 mg/l (rat)

##### CAS: 80-15-9 dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)

##### CAS: 114-83-0 2'-phenylacetohydrazide

Oral	LD50	270 mg/kg (mouse)
------	------	-------------------

##### CAS: 98-82-8 cumene

Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)

#### - Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** 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: 98-82-8	cumene	2B
CAS: 91-20-3	naphthalene	2B
CAS: 1330-20-7	Mixed Xylenes	3
CAS: 100-41-4	ethylbenzene	2B

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

CAS: 98-82-8	cumene	R
CAS: 130-15-4	1,4-naphthoquinone	R
CAS: 91-20-3	naphthalene	R

##### - OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

### - Toxicity

- **Aquatic toxicity:** No further relevant information available.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 5)

- **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

- <b>UN-Number</b>	
- <b>DOT, ADN, IMDG, IATA</b>	not regulated
- <b>UN proper shipping name</b>	
- <b>DOT, ADN, IMDG, IATA</b>	not regulated
- <b>Transport hazard class(es)</b>	
- <b>DOT, ADN, IMDG, IATA</b>	
- <b>Class</b>	not regulated
- <b>Packing group</b>	
- <b>DOT, IMDG, IATA</b>	not regulated
- <b>Environmental hazards:</b>	
- <b>Marine pollutant:</b>	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**  
No further relevant information available.
- **Sara**

### - Section 355 (extremely hazardous substances):

None of the ingredients is listed.

### - Section 313 (Specific toxic chemical listings):

CAS: 80-15-9	dimethylbenzyl hydroperoxide
CAS: 98-82-8	cumene
CAS: 91-20-3	naphthalene
CAS: 1330-20-7	Mixed Xylenes
CAS: 100-41-4	ethylbenzene

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

2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	ACTIVE
methacrylic acid, monoester with propane-1,2-diol	ACTIVE
Acrylic polymer	ACTIVE
Amorphous Silica	ACTIVE
coumarone-indene resins	ACTIVE
Saccharin	ACTIVE
dimethylbenzyl hydroperoxide	ACTIVE

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

**Trade name:** Vibra-TITE® Threadlocker

(Contd. of page 6)

octadecyl methacrylate	ACTIVE
docosyl methacrylate	ACTIVE
propane-1,2-diol	ACTIVE
Deionized water	ACTIVE
2'-phenylacetohydrazide	ACTIVE
icosyl methacrylate	ACTIVE
cumene	ACTIVE
Distillates (petroleum), hydrotreated light naphthenic	ACTIVE
Colorant	*
2-Phenyl-2-propanol	ACTIVE
N-isopropylhydroxylamine	ACTIVE
tetrasodium ethylenediaminetetraacetate	ACTIVE
Polydimethylsiloxane, trimethyl terminated	ACTIVE
1-hydroxyethane-1,1-diylbis(phosphonic acid)	ACTIVE
1,4-naphthoquinone	ACTIVE
Naphtha (petroleum), arom.-contg.	ACTIVE
Colorant	ACTIVE
naphthalene	ACTIVE
2-Propanone, oxime	ACTIVE
octamethylcyclotetrasiloxane	ACTIVE
Dodecamethylcyclohexasiloxane	ACTIVE
2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	ACTIVE
phosphorous acid	ACTIVE

**- Hazardous Air Pollutants**

CAS: 98-82-8	cumene
CAS: 130-15-4	1,4-naphthoquinone
CAS: 91-20-3	naphthalene
CAS: 1330-20-7	Mixed Xylenes
CAS: 100-41-4	ethylbenzene

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

CAS: 98-82-8	cumene
CAS: 91-20-3	naphthalene
CAS: 100-41-4	ethylbenzene

**- 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)**

CAS: 98-82-8	cumene	D, CBD
CAS: 91-20-3	naphthalene	C, CBD
CAS: 1330-20-7	Mixed Xylenes	I
CAS: 100-41-4	ethylbenzene	D

**- TLV (Threshold Limit Value)**

CAS: 91-20-3	naphthalene	A4
CAS: 1330-20-7	Mixed Xylenes	A4
CAS: 100-41-4	ethylbenzene	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.

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 7)

## 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
- **Classification System:**

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

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

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

2	1	0	Health = 2
			Fire = 1
			Reactivity = 0

- **Date of preparation / last revision** 10/07/2022 / 62

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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  
 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)  
 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  
 Flammable Liquids 3: Flammable liquids – Category 3  
 Flammable Liquids 4: Flammable liquids – Category 4  
 Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F  
 Organic Peroxides - Type E: Organic peroxides – Type E/F  
 Acute Toxicity - Oral 4: Acute toxicity – Category 4  
 Acute Toxicity - Inhalation 3: Acute toxicity – Category 3  
 Skin Corrosion 1B: Skin corrosion/irritation – Category 1B  
 Skin Irritation 2: Skin corrosion/irritation – Category 2  
 Eye Damage 1: Serious eye damage/eye irritation – Category 1  
 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
 Sensitization - Skin 1: Skin sensitisation – Category 1  
 Carcinogenicity 2: Carcinogenicity – Category 2  
 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3  
 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Aspiration Hazard 1: Aspiration hazard – Category 1

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

- **Disclaimer**

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

Printing date 10/07/2022

Reviewed on 10/07/2022

**1 Identification**

- **Product identifier**
  - **Trade name:** DriveGrip®
  - **Synonyms:** 470 DriveGrip® Anti Cam-Out Fluid
  - **Part number:** VT470
  - **Application of the substance / the mixture** Assembly adhesive
- **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
- **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: 409-21-2	silicon carbide	Carcinogenicity 1B, H350	20 – 29%
CAS: 11138-66-2	Gum xanthan	Combustible Dust	1 – 4%
CAS: 9002-89-5	Intermediate copolymer	Eye Irritation 2B, H320; Combustible Dust	1 – 4%

**4 First-aid measures**

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **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.
  - **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.

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Trade name: DriveGrip®

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## 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:** 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:**
  - Ensure adequate ventilation.
  - 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.
  - **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:**
    - 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: 409-21-2 silicon carbide

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> fibrous dust: *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 10* 3** mg/m <sup>3</sup> fibrous dust:0.1 f/cc; , nonfibrous:*inh.,**resp.

- **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.
  - **Breathing equipment:**
    - 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

(Contd. on page 3)



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Trade name: DriveGrip®

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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.

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:****- Form:**

Viscous

**- Color:**

Dark grey

**- Odor:**

Characteristic

**- Odor threshold:**

Not determined.

**- pH-value:**

Not determined.

**- Change in condition****- Melting point/Melting range:**

Undetermined.

**- Boiling point/Boiling range:**

≥ 100 °C (≥ 212 °F)

**- Flash point:**

≥ 100 °C (≥ 212 °F)

**- Flammability (solid, gaseous):**

Not applicable.

**- Decomposition temperature:**

Not determined.

**- Auto igniting:**

Product is not selfigniting.

**- Danger of explosion:**

Product does not present an explosion hazard.

**- Explosion limits:****- Lower:**

Not determined.

**- Upper:**

Not determined.

**- Vapor pressure at 20 °C (68 °F):**

≤ 23 hPa (≤ 17.3 mm Hg)

**- Density at 20 °C (68 °F):**~ 1.62191 g/cm<sup>3</sup> (~ 13.53484 lbs/gal)**- Relative density**

Not determined.

**- Vapor 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 at 20 °C (68 °F):**

215,000 – 400,00 mPas

**- Kinematic:**

Not determined.

**- Solvent content:****- Water:**

65.8 %

**- VOC content:**

0.00 %

0.0 g/l / 0.00 lb/gal

**- Solids content:**

34.2 %

**- Other information**

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.

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Trade name: DriveGrip®

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**- 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:

CAS: 9002-89-5 Intermediate copolymer

Oral LD50 > 5,000 mg/kg (rat)

#### - 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:

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.

Irritant

#### - Carcinogenic categories

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

CAS: 409-21-2 silicon carbide

2A

CAS: 9002-89-5 Intermediate copolymer

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:** 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, ADN, IMDG, IATA

not regulated

### - UN proper shipping name

- DOT, ADN, IMDG, IATA

not regulated

### - Transport hazard class(es)

- DOT, ADN, IMDG, IATA

- Class

not regulated

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Trade name: DriveGrip®

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- <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

No further relevant information available.

#### - Sara

##### - Section 355 (extremely hazardous substances):

None of the ingredients is listed.

##### - Section 313 (Specific toxic chemical listings):

CAS: 3251-23-8 | copper dinitrate

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

All components have the value ACTIVE.

##### - Hazardous Air Pollutants

None of the ingredients is listed.

##### - 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)

CAS: 409-21-2 | silicon carbide

A2

CAS: 107-22-2 | glyoxal

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.

## 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

### - Classification System:

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

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

#### - NFPA ratings (scale 0 - 4)

0	1	0	Health = 0
			Fire = 1
			Reactivity = 0

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Trade name: DriveGrip®

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- **Date of preparation / last revision** 10/07/2022 / 35

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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)

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

Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B

Carcinogenicity 1B: Carcinogenicity – Category 1B

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

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

Printing date 10/07/2022

Reviewed on 10/07/2022

**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE® VC-3®
- **Synonyms:** VC-3 Threadmate
- **Part number:** VT213
- **Application of the substance / the mixture**
  - Thread Locking
  - Thread locking and sealing

**- 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

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS07

Eye Irritation 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

**- 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:**

methyl ethyl ketone

**- Hazard statements**

- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

**- 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
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

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Reviewed on 10/07/2022

Trade name: Vibra-TITE® VC-3®

(Contd. of page 1)

- P280 Wear eye protection / face protection.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a poison center/doctor if you feel unwell.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- 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: 78-93-3	methyl ethyl ketone Flammable Liquids 2, H225; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	60 – 69%
CAS: 28262-63-7	Acrylic Resin Combustible Dust	30 – 39%

### 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. If symptoms persist, 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.
- **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:**  
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.

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Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® VC-3®

(Contd. of page 2)

## 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:** 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

#### CAS: 78-93-3 methyl ethyl ketone

PEL Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

REL Short-term value: 885 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

TLV Short-term value: 300 ppm  
Long-term value: 200 ppm  
BEI

### - Ingredients with biological limit values:

#### CAS: 78-93-3 methyl ethyl ketone

BEI 2 mg/L  
Medium: urine  
Time: end of shift  
Parameter: Methyl ethyl ketone (nonspecific)

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

### - Exposure controls

#### - Personal protective equipment:

##### - General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

##### - 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:

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.

- **Body protection:** Protective work clothing

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Reviewed on 10/07/2022

Trade name: Vibra-TITE® VC-3®

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## 9 Physical and chemical properties

<b>- Information on basic physical and chemical properties</b>	
<b>- General Information</b>	
<b>- Appearance:</b>	
- Form:	Viscous
- Color:	Red
- Odor:	Solvent-like
- Odor threshold:	Not determined.
- pH-value:	Not determined.
<b>- Change in condition</b>	
- Melting point/Melting range:	Undetermined.
- Boiling point/Boiling range:	≥ 79 – ≤ 80.5 °C (≥ 174.2 – ≤ 176.9 °F)
- Flash point:	≥ -4 °C (≥ 24.8 °F)
- Flammability (solid, gaseous):	Highly flammable.
- Ignition temperature:	410 °C (770 °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.
<b>- Explosion limits:</b>	
- Lower:	1.8 Vol %
- Upper:	11.5 Vol %
- Vapor pressure at 20 °C (68 °F):	≤ 105 hPa (≤ 78.8 mm Hg)
<b>- Density:</b>	
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
<b>- Solubility in / Miscibility with</b>	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water):	Not determined.
<b>- Viscosity:</b>	
- Dynamic:	Not determined.
- Kinematic at 40 °C (104 °F):	250 mm <sup>2</sup> /s
<b>- Solvent content:</b>	
- Organic solvents:	60.2 %
- VOC content:	60.20 % 602.0 g/l / 5.02 lb/gal
- Solids content:	34.3 %
- Other information	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
  - Hydrocarbons

(Contd. on page 5)



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Trade name: Vibra-TITE® VC-3®

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## 11 Toxicological information

### - Information on toxicological effects

#### - Acute toxicity:

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

CAS: 78-93-3 methyl ethyl ketone

Oral LD50 3,300 mg/kg (rat)

Dermal LD50 5,000 mg/kg (rabbit)

#### - Primary irritant effect:

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

- **on the eye:** Irritating effect.

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

#### - 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

- **IMDG, IATA**

COATING SOLUTION

(Contd. on page 6)

# Safety Data Sheet



acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® VC-3®

(Contd. of page 5)

<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>	
<b>- Hazard identification number (Kemler code):</b>	Warning: Flammable liquids 33
<b>- EMS Number:</b>	F-E, S-E
<b>- Stowage Category</b>	B
<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: 5 L On cargo aircraft only: 60 L
<b>- IMDG</b>	
<b>- Limited quantities (LQ)</b>	5L
<b>- Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 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

No further relevant information available.

#### - 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 components have the value ACTIVE.

#### - Hazardous Air Pollutants

CAS: 108-88-3 toluene

#### - 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.

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® VC-3®

(Contd. of page 6)

<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: 78-93-3	methyl ethyl ketone	I
CAS: 108-88-3	toluene	II
CAS: 111-76-2	2-butoxyethanol	NL
<b>- TLV (Threshold Limit Value)</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 Affaires
- **Contact:** Safety, Health and Environmental Affaires
- **Classification System:**

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

HEALTH	2	Health = 2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

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

2	3	0	Health = 2
			Fire = 3
			Reactivity = 0

- **Date of preparation / last revision** 10/07/2022 / 47

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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  
 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)  
 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  
 BEI: Biological Exposure Limit  
 Flammable Liquids 2: Flammable liquids – Category 2  
 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
 Specific Target Organ Toxicity - Single Exposure 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.

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

Printing date 10/07/2022

Reviewed on 10/07/2022

**1 Identification****- Product identifier**

- **Trade name:** Vibra-TITE® Threadlocker
- **Synonyms:** 125 Medium Strength Gel Threadlocker
- **Part number:** VT125
- **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**

GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

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

GHS07 GHS08

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

2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate  
methacrylic acid, monoester with propane-1,2-diol  
2'-phenylacetohydrazide

**- Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.

**- Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 1)

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**- 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: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	50 – 59%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
	Acrylic polymer	20 – 29%
	Combustible Dust	
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol	5 – 9%
	Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	≤ 1%
	Self-reactive substances and mixtures - Type F, H242; Organic Peroxides - Type E, H242; Acute Toxicity - Inhalation 3, H331; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	
CAS: 114-83-0	2'-phenylacetohydrazide	≤ 1%
	Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 98-82-8	cumene	≤ 1%
	Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	

### 4 First-aid measures

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

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. If symptoms persist, 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.

- **Special hazards arising from the substance or mixture** No further relevant information available.

**- Advice for firefighters****- Protective equipment:**

Wear self-contained respiratory protective device.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 2)

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:

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

Ensure adequate ventilation.

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: 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:

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:

At this time, the other constituents have no known exposure limits.

#### CAS: 80-15-9 dimethylbenzyl hydroperoxide

WEEL Long-term value: 6 mg/m<sup>3</sup>, 1 ppm

Skin

#### CAS: 98-82-8 cumene

PEL Long-term value: 245 mg/m<sup>3</sup>, 50 ppm

Skin

REL Long-term value: 245 mg/m<sup>3</sup>, 50 ppm

Skin

TLV Long-term value: 5 ppm

A3

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

### - Exposure controls

#### - Personal protective equipment:

##### - General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

##### - 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

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 3)

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:** Required use of safety glasses

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties**

**- General Information**

**- Appearance:**

- **Form:**

Fluid

- **Color:**

Blue

- **Odor:**

Characteristic

- **Odor threshold:**

Not determined.

- **pH-value:**

Not determined.

**- Change in condition**

- **Melting point/Melting range:**

Undetermined.

- **Boiling point/Boiling range:**

≥ 200 °C (≥ 392 °F)

- **Flash point:**

≥ 94 °C (≥ 201.2 °F)

- **Flammability (solid, gaseous):**

Not applicable.

- **Decomposition temperature:**

Not determined.

- **Auto igniting:**

Product is not selfigniting.

- **Danger of explosion:**

Product does not present an explosion hazard.

- **Explosion limits:**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Vapor pressure:**

Not determined.

- **Density at 20 °C (68 °F):**

~ 1.1 g/cm<sup>3</sup> (~ 9.1795 lbs/gal)

- **Relative density**

Not determined.

- **Vapor 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:**

0.8 %

- **Water:**

0.4 %

- **VOC content:**

0.77 %

~ 8.5 g/l / ~ 0.07 lb/gal

- **Solids content:**

87.6 %

- **Other information**

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.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 4)

- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Aldehyde  
Hydrocarbons

## 11 Toxicological information

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

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

#### ATE (Acute Toxicity Estimate)

Inhalative	LC50/4 h	26,190 mg/l (rat)
------------	----------	-------------------

#### CAS: 80-15-9 dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)

#### CAS: 114-83-0 2'-phenylacetohydrazide

Oral	LD50	270 mg/kg (mouse)
------	------	-------------------

#### CAS: 98-82-8 cumene

Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)

### - Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** 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: 98-82-8	cumene	2B
CAS: 91-20-3	naphthalene	2B

#### - NTP (National Toxicology Program)

CAS: 98-82-8	cumene	R
CAS: 130-15-4	1,4-naphthoquinone	R
CAS: 91-20-3	naphthalene	R

#### - 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.

(Contd. on page 6)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 5)

**- 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**

No further relevant information available.

**- Sara****- Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**- Section 313 (Specific toxic chemical listings):**

CAS: 80-15-9 dimethylbenzyl hydroperoxide

CAS: 98-82-8 cumene

CAS: 91-20-3 naphthalene

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

All components have the value ACTIVE.

**- Hazardous Air Pollutants**

CAS: 98-82-8 cumene

CAS: 130-15-4 1,4-naphthoquinone

CAS: 91-20-3 naphthalene

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

CAS: 98-82-8 cumene

CAS: 91-20-3 naphthalene

**- 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)**

CAS: 98-82-8 cumene

D, CBD

CAS: 91-20-3 naphthalene

C, CBD

**- TLV (Threshold Limit Value)**

CAS: 91-20-3 naphthalene

A4

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/07/2022

Reviewed on 10/07/2022

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 6)

## - 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- **Classification System:**- **HMIS-ratings (scale 0 - 4)**

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

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

Health	2
Fire	1
Reactivity	0

- **Date of preparation / last revision** 10/07/2022 / 64- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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)

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 &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 3: Flammable liquids – Category 3

Flammable Liquids 4: Flammable liquids – Category 4

Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F

Organic Peroxides - Type E: Organic peroxides – Type E/F

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Skin Corrosion 1B: Skin corrosion/irritation – Category 1B

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Aspiration Hazard 1: Aspiration hazard – Category 1

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

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