

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/04/2018

Reviewed on 05/04/2018

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Thread Sealant

- **Synonyms:** 460 High Temperature -Stainless Steel Thread Sealant

- **Part number:** VT460

- **Application of the substance / the mixture**
Sealing
Sealant

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ND Industries, Inc
1000 North Crooks Road
Clawson, MI 48017
USA
Telephone: +1-248-288-0000
Email: info@ndindustries.com
Website: www.ndindustries.com

- **Information department:** Product safety department

- **Emergency telephone number:**

United States: 1-800-424-9300
International: +1-703-527-3887

* 2 Hazard(s) identification

- Classification of the substance or mixture



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 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:

Polyglycol dimethacrylate

- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash face, hands and any exposed skin 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. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| 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. |
| 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. |

- Classification system:**- NFPA ratings (scale 0 - 4)**

| | |
|---|--|
|  | Health = 2 Fire = 1 Reactivity = 0 |
|---|--|

- HMIS-ratings (scale 0 - 4)

| | |
|---|--|
|  | Health = 2 Fire = 1 Reactivity = 0 |
|---|--|

- 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:**

| | | |
|------------|---|----------|
| 25852-47-5 | Polyglycol dimethacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 | 30 – 39% |
| 39382-25-7 | Bisphenol-A Fumarate Resin Skin Irrit. 2, H315; Eye Irrit. 2B, H320 | 30 – 39% |
| 8002-74-2 | Paraffin wax Combustible Dust | 5 – 9% |
| 67762-90-7 | Synthetic amorphous silica (fumed) Combustible Dust | 5 – 9% |
| 9002-84-0 | Polytetrafluoroethylene Combustible Dust | 1 – 4% |
| 13463-67-7 | titanium dioxide Carc. 2, H351 | 1 – 4% |
| 57-55-6 | Propylene glycol Acute Tox. 4, H302 | 1 – 4% |
| 128-44-9 | Saccharin Acute Tox. 4, H302; Combustible Dust | ≤ 1% |
| 98-82-8 | cumene Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Acute Tox. 4, H302; STOT SE 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.

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* 5 Fire-fighting measures

- Extinguishing media

- Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
CO₂, sand, extinguishing powder. Do not use water.
Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: Water

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

- Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.

* 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.

- **Environmental precautions:** 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.

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:

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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

| | |
|---------------------------------|---|
| 8002-74-2 Paraffin wax | |
| REL | Long-term value: 2 mg/m ³ |
| TLV | Long-term value: 2 mg/m ³ |
| 57-55-6 Propylene glycol | |
| WEEL | Long-term value: 10 mg/m ³ |
| 98-82-8 cumene | |
| PEL | Long-term value: 245 mg/m ³ , 50 ppm Skin |

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| | |
|-----|---|
| REL | Long-term value: 245 mg/m ³ , 50 ppm Skin |
| TLV | Long-term value: (246) NIC-0.5 mg/m ³ , (50) NIC-0.1 ppm NIC-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

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

* 9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

- Form:

Pasty

- Color:

White

- 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:

131 °C (267.8 °F)

- Flammability (solid, gaseous):

Not applicable.

- Ignition temperature:

> 300 °C (> 572 °F)

- 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.

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| | |
|---|--|
| - Density: | Not determined. |
| - 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: | 1.8 % |
| - Water: | 1.6 % |
| - VOC content: | 1.80 % 18.0 g/l / 0.15 lb/gl |
| - Solids content: | 84.2 % |
| - 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.
- **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:

13463-67-7 titanium dioxide

| | | |
|------------|----------|-------------------------|
| Oral | LD50 | > 20,000 mg/kg (rat) |
| Dermal | LD50 | > 10,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | > 6.82 mg/l (rat) |

57-55-6 Propylene glycol

| | | |
|--------|------|-----------------------|
| Oral | LD50 | 2,000 mg/kg (rat) |
| Dermal | LD50 | 20,800 mg/kg (rabbit) |

128-44-9 Saccharin

| | | |
|------|------|-------------------|
| Oral | LD50 | 1,280 mg/kg (rat) |
|------|------|-------------------|

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:

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)

| | | |
|------------|-------------------------|----|
| 9002-84-0 | Polytetrafluoroethylene | 3 |
| 13463-67-7 | titanium dioxide | 2B |
| 98-82-8 | cumene | 2B |

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| | | |
|--|-----------------|---|
| 111-76-2 | 2-butoxyethanol | 3 |
| 148-24-3 | quinolin-8-ol | 3 |
| - NTP (National Toxicology Program) | | |
| 98-82-8 | cumene | 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.
- **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 |
| - 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 |

*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): | |
| 80-15-9 | dimethylbenzyl hydroperoxide |
| 98-82-8 | cumene |
| 111-76-2 | 2-butoxyethanol |

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| - TSCA (Toxic Substances Control Act): | | |
|---|----------------------------|--------|
| Polyglycol dimethacrylate | | |
| Bisphenol-A Fumarate Resin | | |
| Paraffin wax | | |
| Synthetic amorphous silica (fumed) | | |
| Fatty Acid Ester | | |
| Polyethylene glycol diocoate | | |
| Polytetrafluoroethylene | | |
| titanium dioxide | | |
| Propylene glycol | | |
| Saccharin | | |
| dimethylbenzyl hydroperoxide | | |
| N,N-Diethyl-P-Toluidine | | |
| Coco fatty acid | | |
| Polyethylene glycol | | |
| N,N-dimethyl-o-toluidine | | |
| tetrasodium ethylenediaminetetraacetate | | |
| cumene | | |
| 1-hydroxyethane-1,1-diylbis(phosphonic acid) | | |
| mequinol | | |
| N-isopropylhydroxylamine | | |
| 2-Phenyl-2-propanol | | |
| Alumina Trihydrate | | |
| 2-butoxyethanol | | |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | | |
| quinolin-8-ol | | |
| Colorant | | |
| phosphorous acid | | |
| acetone oxime | | |
| Deionized water | | |
| - TSCA new (21st Century Act) (Substances not listed) | | |
| 25852-47-5 | Polyglycol dimethacrylate | |
| 39382-25-7 | Bisphenol-A Fumarate Resin | |
| - Proposition 65 | | |
| - Chemicals known to cause cancer: | | |
| 13463-67-7 | titanium dioxide | |
| 98-82-8 | cumene | |
| - 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) | | |
| 98-82-8 | cumene | D, CBD |
| 111-76-2 | 2-butoxyethanol | NL |
| - TLV (Threshold Limit Value established by ACGIH) | | |
| 13463-67-7 | titanium dioxide | A4 |
| 111-76-2 | 2-butoxyethanol | A3 |
| - NIOSH-Ca (National Institute for Occupational Safety and Health) | | |
| 13463-67-7 | titanium dioxide | |

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

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affaires

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

- **Date of preparation / last revision** 05/04/2018 / 25

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

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

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

Carc. 2: Carcinogenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

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

Asp. Tox. 1: Aspiration hazard – Category 1

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

- **Disclaimer**

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