



Safety Data Sheet

according to HPR, Schedule 1

Printing date 12/04/2024

Reviewed on 12/04/2024

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1 Identification

- Product identifier

- Trade name: Vibra-TITE® Threadlocker

- Synonyms: S140 High Strength Threadlocker Stick
- Part number: VTS140
- 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 identification

- Classification of the substance or mixture



Skin Irritation - Category 2H315 Causes skin irritation.Eye Irritation - Category 2AH319 Causes serious eye irritation.Skin Sensitizer - Category 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure - Category 3H335 May cause respiratory irritation.

- Label elements

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



- Signal word Warning

- Hazard-determining components of labeling:

- 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate
- Bisphenol A epoxy Acrylate
- Modified Epoxy Acrylate Oligomer
- 2-carboxyethyl acrylate
- 2-Butenedioic acid (2Z)
- 2'-phenylacetohydrazide

- Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.

- Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should 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.

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| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | 3 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. |
| 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. |
| 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. |

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 | 15 – 40% w/w * | |
|-----------------|---|----------------|--|
| | Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335 | | |
| CAS: 10595-06-9 | 2-phenoxyethyl methacrylate | 10 – 30% w/w * | |
| | Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319 | | |
| | Acrylic polymer | 5 – 10% w/w * | |
| | Combustible Dusts - Category 1 | | |
| CAS: 1985-51-9 | Neopentylglycol Dimethacrylate | 5 – 10% w/w * | |
| | Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319 | | |
| | Bisphenol A epoxy Acrylate | 1 – 5% w/w * | |
| | Skin Sensitizer - Category 1, H317 | | |
| | Modified Epoxy Acrylate Oligomer | 1 – 5% w/w * | |
| | Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317 | | |
| CAS: 35227-05-5 | 2-Propenoic acid, 2-methyl-, polymer | 1 – 5% w/w * | |
| | Combustible Dusts - Category 1 | | |
| CAS: 24615-84-7 | 2-carboxyethyl acrylate | 0.5 - 1.5% w/w | |
| | Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318; Specific Target Organ Toxicity - Single Exposure - Category 3, H335 | | |
| CAS: 80-15-9 | dimethylbenzyl hydroperoxide | 0.1 – 1% w/w * | |
| | Self-reactive Substances and Mixtures – Type F, H242; Organic Peroxides – Type E, H242; Acute Toxicity (Inhalation) - Category 3, H331; Specific Target Organ Toxicity - Repeated Exposure - Category 2, H373; Aspiration Hazard - Category 1, H304; Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) – Category 4, H312; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Flammable Liquids - Category 4, H227 | | |
| CAS: 110-16-7 | 2-Butenedioic acid (2Z) | 0.1 – 1% w/w * | |
| | Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) – Category 4, H312; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335 | | |
| CAS: 114-83-0 | 2'-phenylacetohydrazide | 0.1 – 1% w/w * | |
| | Acute Toxicity (Oral) - Category 4, H302; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335 | | |

4 First-aid measures

- Description of first aid measures

- After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

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

- After eye contact: Rinse opened eye for several minutes under running water. 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.

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- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media

Suitable extinguishing agents:

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

- 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: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Ensure adequate ventilation. 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 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.

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 section 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 (USA) TWA: 6 mg/m³, 1 ppm

Skin

- 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.

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- 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 ch | nemical properties |
|--|---|
| - General Information | |
| - Appearance: | |
| - Form: | Pasty |
| - Color: | Red |
| - Odor: | Mild |
| - Odor threshold: | Not determined. |
| - pH-value: | Not applicable. |
| Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | > 140 °C |
| - Flash point: | ≥ 94 °C |
| - Flammability: | Not determined. |
| Decomposition temperature: | Not determined. |
| - Ignition temperature: | 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 applicable. |
| - Density at 20 °C: | ~ 1.0944 g/cm³ |
| Relative density | Not determined. |
| - Vapor density | Not applicable. |
| - Evaporation rate | Not applicable. |
| Solubility in / Miscibility with | |
| - Water: | Soluble. |
| - Partition coefficient (n-octanol/wa | iter): Not determined. |
| - Viscosity: | |
| - Dynamic: | Not applicable. |
| - Kinematic: | Not applicable. |
| - Solvent content: | |
| Organic solvents: | 0.6 % |
| - Water: | 0.8 % |
| - VOC content: | 0.63 % |
| - Solids content: | 100.0 % |
| - Other information | No further relevant information available. |
| | |

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|------------------------|-----------------|---|-----------------|
| Stability | and re | eactivity | |
| - Reactivit | y No fur | her relevant information available. | |
| Chemica | | | |
| | | omposition / conditions to be avoided: No decomposition if used according to specifications. | |
| | | zardous reactions No dangerous reactions known. | |
| | | <i>/oid</i> No further relevant information available. | |
| | | aterials: No further relevant information available. | |
| - Hazardol Aldehyde | us aeco | omposition products: | |
| Hydrocarb | ons | | |
| • | | information | |
| | - | toxicological effects | |
| | e toxicit | | |
| - LE | D/LC50 | values that are relevant for classification: | |
| ATE (Acut | e Toxici | ty Estimate) | |
| Inhalative | LC50/4 | n 31,291 mg/l (rat) | |
| CAS: 80-1 | 5-9 dime | ethylbenzyl hydroperoxide | |
| | LD50 | 382 mg/kg (rat) | |
| Dermal | LD50 | 500 mg/kg (rat) | |
| Inhalative | LC50/4 | n 220 mg/l (rat) | |
| | | utenedioic acid (2Z) | |
| | LD50 | 708 mg/kg (rat) | |
| Dermal | LD50 | 1,560 mg/kg (rabbit) | |
| CAS: 114- | 83-0 2'-p | henylacetohydrazide | |
| Oral | LD50 | 270 mg/kg (mouse) | |
| - Pr | rimary i | rritant effect: | |
| | - on the | e skin: Irritant to skin and mucous membranes. | |
| | | eye: Irritating effect. | |
| | | tion: Sensitization possible through skin contact. | |
| - Addit | oduct ch | oxicological information: ows the following dangers according to internally approved calculation methods for preparations: | |
| Irritant | | | |
| - Ca | ercinoa | enic categories | |
| | - | (International Agency for Research on Cancer) | |
| | | propenoic acid, homopolymer | 3 |
| CAS: 79-1 | | crylic acid | 3 |
| CAS: 98-8 | | umene | 2B |
| | - NTP (| National Toxicology Program) | |
| CAS: 98-8 | • | mene | R |
| | | -naphthoquinone | R |
| 2 Ecologi | | | |
| LCOIDGI | | | |
| - Toxicity | | | |
| | | city: No further relevant information available. | |
| | | degradability No further relevant information available. | |
| - Benavior | in env | ironmental systems: ative potential No further relevant information available. | |
| | | | |

- Mobility in soil No further relevant information available.
- Ecotoxical effects:
 - **Remark:** Harmful to fish
- 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.

- Harmful to aquatic organisms Results of PBT and vPvB assessment
 - PBT: Not applicable.

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- 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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

| - UN-Number | | |
|---|---------------------------------|--|
| - DOT/TDG, ADR, IMDG, IATA | not regulated | |
| - UN proper shipping name - DOT/TDG, ADR, IMDG, IATA | not regulated | |
| - Transport hazard class(es) | | |
| - DOT/TDG, ADR, ADN, IMDG, IATA - Class | not regulated | |
| - Packing group - DOT/TDG, ADR, IMDG, IATA | not regulated | |
| - Environmental hazards: | Not applicable. | |
| - Special precautions for user | Not applicable. | |
| Transport in bulk according to Annex II of N and the IBC Code | //ARPOL73/78 Not applicable. | |
| - UN "Model Regulation": | not regulated | |

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

- Sara

| 0070 | | |
|----------------------------------|--|--------------------|
| | ection 355 (extremely hazardous substances): | |
| None of the ing | predients is listed. | |
| - Se | ection 313 (Specific toxic chemical listings): | |
| CAS: 1985-51- | 9 Neopentylglycol Dimethacrylate | |
| CAS: 80-15-9 | dimethylbenzyl hydroperoxide | |
| CAS: 79-10-7 | acrylic acid | |
| CAS: 98-82-8 | Cumene | |
| CAS: 98-86-2 | acetophenone | |
| - TSCA | (Toxic Substances Control Act): | |
| 2-(2-methylpro | p-2-enoyloxy)ethyl 2-methylprop-2-enoate | ACTIVE |
| 2-phenoxyethy | 2-phenoxyethyl methacrylate | |
| Acrylic polymer | | ACTIVE |
| Neopentylglyco | ol Dimethacrylate | ACTIVE |
| Bisphenol A ep | boxy Acrylate | ACTIVE |
| Modified Epoxy Acrylate Oligomer | | ACTIVE |
| 2-propenoic ac | id, homopolymer | ACTIVE |
| 2-Propenoic ac | sid, 2-methyl-, polymer | ACTIVE |
| 2-carboxyethyl | acrylate | ACTIVE |
| Saccharin | | ACTIVE |
| Deionized wate | Deionized water | |
| dimethylbenzyl | hydroperoxide | ACTIVE |
| Silicon dioxide, | amorphous | ACTIVE |
| acrylic acid | | ACTIVE |
| propane-1,2-di | ol | ACTIVE |
| Tetraethylene | glycol hexoate | ACTIVE |
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| 2-Butenedioic acid | (2Z) | (Contd. of pag |
|----------------------|--|----------------|
| 2'-phenylacetohydra | | ACTIV |
| tert-butyl perbenzoa | | ACTIV |
| Cumene | | ACTIV |
| • | s(5-tert-butyl-1,3-benzoxazole) | ACTIV |
| | ediaminetetraacetate | ACTIV |
| N-isopropylhydroxy | | ACTIV |
| Colorant | | ACTIV |
| acetophenone | | ACTIV |
| | N | ACTIV |
| 2-Phenyl-2-propand | 1-diylbis(phosphonic acid) | ACTIN |
| 1,4-naphthoquinone | | ACT |
| 2-Propanone, oxim | | ACTIV |
| | 5 | |
| phosphorous acid | | ACTIV |
| | substance listings: | |
| | lian Domestic Substances List (DSL) | |
| CAS: 25852-47-5 | 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate | |
| | Acrylic polymer | |
| | Bisphenol A epoxy Acrylate | |
| | Modified Epoxy Acrylate Oligomer | |
| CAS: 9003-01-4 | 2-propenoic acid, homopolymer | |
| CAS: 24615-84-7 | 2-carboxyethyl acrylate | |
| CAS: 128-44-9 | Saccharin | |
| CAS: 7732-18-5 | Deionized water | |
| CAS: 80-15-9 | | |
| CAS: 112945-52-5 | Silicon dioxide, amorphous | |
| CAS: 79-10-7 | acrylic acid | |
| CAS: 57-55-6 | propane-1,2-diol | |
| CAS: 18268-70-7 | Tetraethylene glycol hexoate | |
| CAS: 110-16-7 | 2-Butenedioic acid (2Z) | |
| CAS: 114-83-0 | 2'-phenylacetohydrazide | |
| CAS: 614-45-9 | tert-butyl perbenzoate | |
| CAS: 98-82-8 | Cumene | |
| CAS: 7128-64-5 | 2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole) | |
| CAS: 64-02-8 | tetrasodium ethylenediaminetetraacetate | |
| CAS: 5080-22-8 | N-isopropylhydroxylamine | |
| CAS: 6483-64-3 | Colorant | |
| CAS: 98-86-2 | acetophenone | |
| CAS: 617-94-7 | 2-Phenyl-2-propanol | |
| CAS: 2809-21-4 | 1-hydroxyethane-1,1-diylbis(phosphonic acid) | |
| CAS: 130-15-4 | 1,4-naphthoquinone | |
| CAS: 13598-36-2 | phosphorous acid | |
| | lian Non-Domestic Substances List (NDSL) | |
| | P-phenoxyethyl methacrylate | |
| | Veopentylglycol Dimethacrylate | |
| | 2-Propenoic acid, 2-methyl-, polymer | |
| | 2-Propenoic acid, 2-memyi-, polymer 2-Propanone, oxime | |
| I | | |
| | lian Ingredient Disclosure list (limit 0.1%) | |
| None of the ingredi | ents is listed. | |
| - Canac | lian Ingredient Disclosure list (limit 1%) | |
| None of the ingredi | - | |
| - | 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

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- Classification System:



- NFPA ratings (scale 0 - 4)



- Date of the latest revision of the safety data sheet 12/04/2024 / - Abbreviations and acronvms: IMDG: International Maritime Code for Dangerous Goods INUDE: 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: VIoletile Organic Compounded (USA) ELIN VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

- Disclaimer

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