



# Safety Data Sheet acc. to OSHA HCS

Printing date 03/06/2019 Reviewed on 03/05/2019

# 1 Identification

#### - Product identifier

- Trade name: Vibra-TITE® Threadlocker

- Synonyms: 131 Permanent Strength Threadlocker

- Part number: VT131

- 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

Carc. 2 H351 Suspected of causing cancer.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

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:

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

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.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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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.

P362+P364
P332+P313
P333+P313
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
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.

#### 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:  |          |
|-----------------|--|----------|
| CAS: 25852-47-5 | 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate   | 39.75%   |
|                 | Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335  |          |
| CAS: 27813-02-1 | methacrylic acid, monoester with propane-1,2-diol  | 20 – 29% |
|                 | Eye Irrit. 2A, H319; Skin Sens. 1, H317  |          |
| CAS: 39382-25-7 | 2-Butenedioic acid (2E)-, polymer with $\alpha,\alpha'$ -[(1-methylethylidene)di-4,1-phenylene]bis[ $\omega$ -hydroxypoly[oxy(methyl-1,2-ethanediyl)]] | 20 – 29% |
|                 | Eye Irrit. 2A, H319  |          |
| CAS: 67762-90-7 | Amorphous Silica   | 1 – 4%   |
|                 | Combustible Dust   |          |
| CAS: 57-55-6    | propane-1,2-diol   | 1 – 4%   |
|                 | Acute Tox. 4, H302   |          |
| CAS: 114-83-0   | 2'-phenylacetohydrazide  | ≤ 1%     |
|                 | Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335  |          |
| CAS: 98-82-8    | cumene   | ≤ 1%     |
|                 | Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Acute Tox. 4, H302; STOT SE 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.

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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.

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 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.

# CAS: 57-55-6 propane-1,2-diol WEEL Long-term value: 10 mg/m³ CAS: 98-82-8 cumene PEL Long-term value: 245 mg/m³, 50 ppm Skin REL Long-term value: 245 mg/m³, 50 ppm Skin TLV Long-term value: (246) NIC-0.5 mg/m³, (50) NIC-0.1 ppm NIC-A3

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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:

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

| General Information                              |   |  |
|--|---|--|
| - Appearance:                                    |   |  |
| - Form:  | Liquid  |  |
| - Color:   | Red   |  |
| - Odor:  | Characteristic                                |  |
| - Odor threshold:                                | Not determined.                               |  |
| pH-value at 20 °C (68 °F):                       | 6   |  |
| Change in condition                              |   |  |
| - Melting point/Melting range:                   | Undetermined.                                 |  |
| <ul> <li>Boiling point/Boiling range:</li> </ul> | ≥ 200 °C (≥ 392 °F)                           |  |
| Flash point:                                     | 131 °C (267.8 °F)                             |  |
| Flammability (solid, gaseous):                   | Not applicable.                               |  |
| Ignition temperature:                            | n.a. °C                                       |  |
| - 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 (≤ 0.1 mm Hg)                       |  |
| Density at 20 °C (68 °F):                        | ~ 1.06 g/cm³ (~ 8.8457 lbs/gal)               |  |
| - Relative density                               | Not determined.                               |  |
| - Vapor density                                  | Not determined.                               |  |

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| <ul> <li>Solubility in / Miscibility with</li> <li>Water:</li> </ul> | Not miscible or difficult to mix.          |  |
|--|--|--|
| - Partition coefficient (n-octanol/                                  | water): Not determined.                    |  |
| - Viscosity:   |  |  |
| - Dynamic at 20 °C (68 °F):  | 1,800 mPas                                 |  |
| - Kinematic:   | Not determined.                            |  |
| - Solvent content:   |  |  |
| <ul> <li>Organic solvents:</li> </ul>                                | 1.2 %                                      |  |
| - Water:   | 1.5 %                                      |  |
| <ul> <li>VOC content:</li> </ul>                                     | 1.17 %                                     |  |
|  | ~ 12.4 g/l / ~ 0.10 lb/gal                 |  |
| - Solids content:  | 66.4 %                                     |  |
| 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

# 11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

| - LD/LC50 values that are relevant for classification: |                               |                       |  |  |  |
|--|-------------------------------|-----------------------|--|--|--|
| ATE (Acut  | ATE (Acute Toxicity Estimate) |                       |  |  |  |
| Oral   | LD50                          | 75,169 mg/kg (rat)    |  |  |  |
| Dermal   | LD50                          | 58,357 mg/kg (rat)    |  |  |  |
| CAS: 57-5  | CAS: 57-55-6 propane-1,2-diol |                       |  |  |  |
| Oral   | LD50                          | 2,000 mg/kg (rat)     |  |  |  |
| Dermal   | LD50                          | 20,800 mg/kg (rabbit) |  |  |  |
| CAS: 114-  | 83-0 2'-ph                    | nenylacetohydrazide   |  |  |  |
| 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

| caromogeme categories                                |    |
|--|----|
| - IARC (International Agency for Research on Cancer) |    |
| CAS: 98-82-8 cumene                                  | 2B |
| CAS: 85-83-6 Colorant                                | 3  |
| - NTP (National Toxicology Program)                  |    |
| CAS: 98-82-8   cumene                                | R  |
| CAS: 130-15-4 1,4-naphthoquinone                     | R  |

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# - 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<br>- DOT, ADN, IMDG, IATA                         | not regulated                |  |
|---|------------------------------|--|
| - UN proper shipping name<br>- DOT, ADN, IMDG, IATA           | not regulated                |  |
| - Transport hazard class(es)                                  |                              |  |
| - DOT, ADN, IMDG, IATA<br>- Class                             | not regulated                |  |
| - Packing group<br>- DOT, IMDG, IATA                          | not regulated                |  |
| - Environmental hazards:<br>- Marine pollutant:               | No                           |  |
| - Special precautions for user                                | Not applicable.              |  |
| - Transport in bulk according to Annex II of and the IBC Code | MARPOL73/78  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):                      |  |
| CAS: 80-15-9 dimethylbenzyl hydroperoxide                              |  |
| CAS: 98-82-8 cumene  |  |
| - TSCA (Toxic Substances Control Act):                                 |  |
| All ingredients are listed.  |  |
| - TSCA new (21st Century Act): (Substances not listed)                 |  |
| CAS: 25852-47-5 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate |  |
| CAS: 114-83-0 2'-phenylacetohydrazide                                  |  |

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D, CBD

- Hazardous Air Pollutants

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

- Proposition 65

- Chemicals known to cause cancer:

CAS: 98-82-8 cumene

CAS: 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)

CAS: 98-82-8 cumene

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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
  - Date of preparation / last revision 03/06/2019 / 47
  - 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

PNF: 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 Skin Sens. 1: Skin sensitisation – Category 1

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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