

Safety Data Sheet
in accordance with HSNO

Printing date 13.09.2023

Version number 26

Revision: 13.09.2023

SECTION 1: Identification of the substance or mixture and of the supplier**- 1.1 Product identifier****- Trade name:** Vibra-TITE® Threadlocker**- Article number:** VT146**- 1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

- Article category AC0 Other**- Application of the substance / the mixture** Thread Locking**- 1.3 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**- Further information obtainable from:** Product Safety Department**- 1.4 Emergency telephone number:**

United States: 1-800-424-9300

International: +1-703-527-3887


SECTION 2: Hazards identification**- 2.1 Classification of the substance or mixture****- Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.


Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

 Xi; Sensitising

R43: May cause sensitisation by skin contact.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements**- Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:

Xi Irritant

- Hazard-determining components of labelling:

Bisphenol A epoxy Acrylate

- Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

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43 May cause sensitisation by skin contact.

- Safety phrases:

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

SECTION 3: Composition/Information on ingredients

- 3.2 Chemical characterisation: Mixtures**- Description:** Mixture of substances listed below with nonhazardous additions.**- Dangerous components:**

CAS: 25852-47-5 EC number: 607-819-8	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	29.09%
	Bisphenol A epoxy Acrylate Xi R43 Skin Sens. 1, H317	20 – 29%
CAS: 27813-02-1 EINECS: 248-666-3	methacrylic acid, monoester with propane-1,2-diol Xi R36/38 Eye Irrit. 2, H319; Skin Sens. 1, H317	10 – 19%
CAS: 24615-84-7 EINECS: 246-359-9	2-carboxyethyl acrylate C R35; Xi R37-41 Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335	1 – 4%
CAS: 80-15-9 EINECS: 201-254-7	dimethylbenzyl hydroperoxide T R23; C R34; Xn R21/22-48/20/22; O R7; N R51/53 Self-react. F, H242; Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335; Flam. Liq. 4, H227	≤ 1%
CAS: 79-10-7 EINECS: 201-177-9	acrylic acid C R35; Xn R20/21/22; N R50 R10 Flam. Liq. 3, H226; Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	≤ 1%
CAS: 26936-30-1 EC number: 639-257-4	Methacryloxypropyltrimethoxysilane Xn R21/22; Xi R43 Skin Sens. 1B, H317	≤ 1%
CAS: 114-83-0 EINECS: 204-055-3	2'-phenylacetohydrazide Xn R20/21/22 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	≤ 1%
CAS: 98-82-8 EINECS: 202-704-5	cumene Xn R65; Xi R37; N R51/53 R10 Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H302; STOT SE 3, H335	≤ 1%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 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.**- 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**- 4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Fire fighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
 - **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation
 - Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 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 material collected according to regulations.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 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 fire - and explosion protection:** No special measures required.
- **7.2 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 container tightly sealed.
 - Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
 - **Additional information about design of technical facilities:** No further data; see item 7.
 - **Ingredients 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.

CAS: 79-10-7 acrylic acid	
WES (New Zealand)	Long-term value: 5.9 mg/m ³ , 2 ppm skin, dsen
IOELV (EU)	Short-term value: 59* mg/m ³ , 20* ppm Long-term value: 29 mg/m ³ , 10 ppm *reference period of 1 minute
CAS: 98-82-8 cumene	
WES (New Zealand)	Short-term value: 375 mg/m ³ , 75 ppm Long-term value: 125 mg/m ³ , 25 ppm skin
IOELV (EU)	Short-term value: 250 mg/m ³ , 50 ppm Long-term value: 50 mg/m ³ , 10 ppm Skin

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

- **8.2 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.

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Avoid contact with the eyes and skin.

- Respiratory protection:

Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- 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: Safety glasses**- Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

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

Liquid

- Colour:

Red

- Odour:

Characteristic

- Odour threshold:

Not determined.

- pH-value:

Not determined.

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

Undetermined.

- Initial boiling point and boiling range: ≥ 200 °C**- Flash point:**

131 °C

- Flammability (solid, gas):

Not applicable.

- Decomposition temperature:

Not determined.

- Auto-ignition temperature:

Product is not selfigniting.

- Explosive properties:

Product does not present an explosion hazard.

- Explosion limits:**- Lower:**

Not determined.

- Upper:

Not determined.

- Vapour pressure at 20 °C: ≤ 0.1 hPa**- Density:**

Not determined.

- Relative density

Not determined.

- Vapour 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:**

1.1 %

- Water:

0.5 %

- VOC (EC)

1.09 %

- Solids content:

29.5 %

- 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.

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- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
 - Aldehyde
 - Hydrocarbons

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	26,190 mg/l (rat)
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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: 79-10-7 acrylic acid

Oral	LD50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

CAS: 26936-30-1 Methacryloxypropyltrimethoxysilane

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

CAS: 114-83-0 2'-phenylacetohydrazide

Oral	LD50	270 mg/kg (mouse)
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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)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
 - **Additional ecological information:**
 - **General notes:**
 - Water hazard class 1 (German Regulation) (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.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- Uncleaned packaging:**- Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**

- 14.1 UN-Number	
- NZS, IMDG, IATA	not regulated
- 14.2 UN proper shipping name	
- NZS, IMDG, IATA	not regulated
- 14.3 Transport hazard class(es)	
- NZS, ADN, IMDG, IATA	
- Class	not regulated
- 14.4 Packing group	
- NZS, IMDG, IATA	not regulated
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- UN "Model Regulation":	not regulated

*** SECTION 15: Regulatory information****- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****- New Zealand Inventory of Chemicals**

CAS: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate
	Bisphenol A epoxy Acrylate
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol
CAS: 9003-01-4	2-propenoic acid, homopolymer
CAS: 128-44-9	Saccharin
CAS: 24615-84-7	2-carboxyethyl acrylate
CAS: 57-55-6	propane-1,2-diol
CAS: 80-15-9	dimethylbenzyl hydroperoxide
CAS: 79-10-7	acrylic acid
CAS: 7732-18-5	Deionized water
CAS: 114-83-0	2'-phenylacetohydrazide
CAS: 98-82-8	cumene
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate
CAS: 98-86-2	acetophenone
CAS: 617-94-7	2-Phenyl-2-propanol
CAS: 5080-22-8	N-isopropylhydroxylamine
CAS: 2809-21-4	1-hydroxyethane-1,1-diylbis(phosphonic acid)
CAS: 91-44-1	Colorant
CAS: 127-06-0	2-Propanone, oxime
CAS: 13598-36-2	phosphorous acid

- HSNO Approval numbers

CAS: 80-15-9	dimethylbenzyl hydroperoxide	HSR001368
CAS: 98-82-8	cumene	HSR001184

- Directive 2012/18/EU**- Named dangerous substances - ANNEX I** None of the ingredients is listed.**- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 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.

- Relevant phrases

H226 Flammable liquid and vapour.
H227 Combustible liquid.

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H242	Heating may cause a fire.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R23	Toxic by inhalation.
R34	Causes burns.
R35	Causes severe burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R50	Very toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R7	May cause fire.

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

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

- **Classification System:**

- **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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

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

Org. Perox. E: Organic peroxides – Type E/F

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

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

Carc. 2: Carcinogenicity – Category 2

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

- **Disclaimer**

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