



### Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

Page 1/7

#### **1** Identification

#### - Product identifier

- Trade name: Vibra-TITE® Threadlocker
  - Synonyms: 140 High Strength Threadlocker
  - **Part number:** VT140
  - 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.

### Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

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

	(Contd. of page 1)
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/v
	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	7 – 13% 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	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.

- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024

Trade name: Vibra-TITE® Threadlocker

Reviewed on 01/29/2024

# 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: Absorb with liquid binding material (sand distantia, said bindars, 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 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/m<sup>3</sup>, 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.

(Contd. of page 2)

#### Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024

Trade name: Vibra-TITE® Threadlocker

Reviewed on 01/29/2024

- Protection of hands:

(Contd. of page 3)



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

nformation on basic physical and chei	mical 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:	> 140 °C
- Flash point:	94 °C
- Flammability (solid, gaseous):	Not applicable.
- Auto igniting:	n.a. °C
- 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 determined.
- Density at 20 °C:	~ 1.1 g/cm³
- 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/wate	er): Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
- Organic solvents:	0.7 %
- Water:	0.8 %
- VOC content:	0.68 %
	~ 7.4 g/l / ~ 0.06 lb/gal
- Solids content:	39.6 %

(Contd. on page 5)

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

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

Reviewed on 01/29/2024

	_		(Contd. of page
- Other in	formatio	No further relevant information available.	
0 Stability	and rea	activity	
- Chemica - Theri - Possibil - Conditio - Incompa	nd stabilit mal deco ity of haz its to ave tible ma	er relevant information available. y mposition / conditions to be avoided: No decomposition if used according to specifications. ardous reactions No dangerous reactions known. bid No further relevant information available. terials: No further relevant information available. mposition products:	
Hydrocarb		-	
l Toxicol	ogical ir	formation	
		xicological effects	
	e toxicity		
		alues that are relevant for classification:	
•	-	r Estimate)	
innalative	LC50/4 h	29,101 mg/l (rat)	
CAS: 80-1	5-9 dimet	hylbenzyl hydroperoxide	
Oral	LD50	382 mg/kg (rat)	
Dermal	LD50	500 mg/kg (rat)	
Inhalative	LC50/4 h	220 mg/l (rat)	
CAS: 110	-16-7 2-Bu	tenedioic acid (2Z)	
Oral	LD50	708 mg/kg (rat)	
Dermal	LD50	1,560 mg/kg (rabbit)	
CAS: 114	-83-0 2'-pł	enylacetohydrazide	
Oral	LD50	270 mg/kg (mouse)	
- <b>P</b>	rimary iri	itant effect:	
- Addi	- on the ensitizati tional tox roduct sho	<b>skin:</b> Irritant to skin and mucous membranes. <b>eye:</b> Irritating effect. <b>on:</b> Sensitization possible through skin contact. <b>cicological information:</b> ws the following dangers according to internally approved calculation methods for preparations:	
- C	arcinoge	nic categories	
	- IARC (I	nternational Agency for Research on Cancer)	
CAS: 900	3-01-4 2-p	ropenoic acid, homopolymer	3
CAS: 79-1	0-7 acr	ylic acid	3
CAS: 98-8	2-8 Cu	mene	28
	- NTP (N	ational Toxicology Program)	
CAS: 98-8	•		F

#### 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.

- Ecotoxical effects:

- **Remark:** Harmful to fish

- 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. Harmful to aquatic organisms

(Contd. of page 5)

# Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

Trade name: Vibra-TITE® Threadlocker

rbage. Do not allow product to reach sewage system. ons. gulated
ons.
gulated
gulated
gulated
6
gulated
<b>3</b>
ot regulated
gulated
able.
able.
c

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

- Sara

- Sara		
- Section 355 (extremely hazardous substances):		
None of the ingree	None of the ingredients is listed.	
- Section 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 (T	- TSCA (Toxic Substances Control Act):	
All components ha	ave the value ACTIVE.	
- Canadia	n substance listings:	
- Canadian 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	dimethylbenzyl hydroperoxide	
CAS: 112945-52-	5 Silicon dioxide, amorphous	
CAS: 79-10-7	acrylic acid	

#### Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024

#### Reviewed on 01/29/2024

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

040 57 55 0	(Contd. of page 6)	
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	
- Cana	- Canadian Non-Domestic Substances List (NDSL)	
CAS: 10595-06-9	2-phenoxyethyl methacrylate	
CAS: 1985-51-9	Neopentylglycol Dimethacrylate	
CAS: 35227-05-5	2-Propenoic acid, 2-methyl-, polymer	
CAS: 127-06-0	2-Propanone, oxime	
- Cana	- Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingred	None of the ingredients is listed.	
- Cana	- Canadian Ingredient Disclosure list (limit 1%)	

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)



- NFPA ratings (scale 0 - 4)



- Date of the latest revision of the safety data sheet 01/29/2024

#### - Abbreviations and acronyms:

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 - \* Data compared to the previous version altered.

#### - Disclaimer

The information set forth is based on information that ND Industries, Inc. 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.