



Printing date 04/08/2019 Reviewed on 04/08/2019

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 identification

- Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity - Category 2

H351 Suspected of causing cancer.



Skin Irritation - Category 2 Eye Irritation - Category 2A Skin Sensitizer - Category 1 H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - Category 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/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.

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(Contd. of page 1) Wear protective gloves.

P280

P302+P352 If on skin: Wash with plenty of water.

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 rinsina.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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.

- Classification system:

- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)



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% w/w
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol	28.83% w/w
	Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	
CAS: 39382-25-7	2-Butenedioic acid (2E)-, polymer with α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)]]	24.71% w/w
	Eye Irritation - Category 2A, H319	
CAS: 67762-90-7	Amorphous Silica	1.57% w/w
	Combustible Dusts - Category 1	
CAS: 57-55-6	propane-1,2-diol	1.07% w/w
	Acute Toxicity (Oral) - Category 4, H302	
CAS: 114-83-0	2'-phenylacetohydrazide	0.15% 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	
CAS: 98-82-8	cumene	0.102% w/w
	Flammable Liquids - Category 3, H226; Carcinogenicity – Category 2, H351; Aspiration Hazard - Category 1, H304; Acute Toxicity (Oral) - Category 4, H302; Specific Target Organ Toxicity - Single Exposure - Category 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 Firefighting 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

· · · · · · · · · · · · · · · · · · ·			
- Compor	- Components with limit values that require monitoring at the workplace:		
CAS: 57-55-6	CAS: 57-55-6 propane-1,2-diol		
EV (Canada)	Long-term value: 155* 10** mg/m³, 50* ppm *vapour and aerosol;**aerosol only		
WEEL (USA)	Long-term value: 10 mg/m³		
CAS: 98-82-8	cumene		
EL (Canada)	Short-term value: 75 ppm Long-term value: 25 ppm IARC 2B		
EV (Canada)	Long-term value: 245 mg/m³, 50 ppm Skin		

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PEL (USA)

Long-term value: 245 mg/m³, 50 ppm
Skin

REL (USA)

Long-term value: 245 mg/m³, 50 ppm
Skin

TLV (USA)

Long-term value: (246) NIC-0.5 mg/m³, (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

or hydroar and dromiour proportios		
- Information on basic physical and che - General Information - Appearance:	mical properties	
- Form:	Liquid	
- Color:	Red	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value at 20 °C:	6	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. ≥ 200 °C	
- Flash point:	131 °C	
- 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.	
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- Vapor pressure at 20 °C:	≤ 0.1 hPa	
- Density at 20 °C:	~ 1.06 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/v	water): Not determined.	
- Viscosity:		
- Dynamic at 20 °C:	1,800 mPas	
- Kinematic:	Not determined.	
- Solvent content:		
- Organic solvents:	1.2 %	
- Water:	1.5 %	
- VOC content:	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:

- LI	- LD/LC50 values that are relevant for classification:		
ATE (Acut	ATE (Acute Toxicity Estimate)		
Oral	LD50	75,169 mg/kg (rat)	
Inhalative	LC50/4 h	25,677 mg/l (rat)	
CAS: 57-5	5-6 propa	ne-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: 98-8	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)	
		site and affective	

- 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:

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)	
CAS: 98-82-8 cumene	2B
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	(Contd. of page		
CAS: 85-83-6	Colorant	3	
- NT	P (National Toxicology Program)		
CAS: 98-82-8	cumene	R	
CAS: 130-15-4	1,4-naphthoquinone	R	

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/TDG, ADR, ADN, IMDG, IATA	not regulated	
- UN proper shipping name - DOT/TDG, ADR, ADN, IMDG, IATA	not regulated	
- Transport hazard class(es)		
- DOT, ADR, ADN, IMDG, IATA - Class	not regulated	
- Packing group - DOT/TDG, ADR, IMDG, IATA	not regulated	
- Environmental hazards: - Marine pollutant:	No	
- Special precautions for user	Not applicable.	
- Transport in bulk according to Annex II of MARP and the IBC Code	OL73/78 Not applicable.	
- UN "Model Regulation":	not regulated	

*15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

- Sara

- Se	- Section 355 (extremely hazardous substances):		
None of the inc	None of the ingredients is listed.		
- Se	ction 313 (Specific toxic chemical listings):		
CAS: 80-15-9	CAS: 80-15-9 dimethylbenzyl hydroperoxide		
CAS: 98-82-8	CAS: 98-82-8 cumene		
- TSCA	(Toxic Substances Control Act):		
2-(2-methylpro	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate ACTIVE		
methacrylic ac	d, monoester with propane-1,2-diol	ACTIVE	

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2-Butenedioic acid (2E)-, polymer with α,α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]	ACTIVE
Amorphous Silica	ACTIVE
propane-1,2-diol	ACTIVE
Saccharin	ACTIVE
dimethylbenzyl hydroperoxide	ACTIVE
2'-phenylacetohydrazide	ACTIVE
cumene	ACTIVE
tetrasodium ethylenediaminetetraacetate	ACTIVE
N-isopropylhydroxylamine	ACTIVE
2-Phenyl-2-propanol	ACTIVE
1-hydroxyethane-1,1-diylbis(phosphonic acid)	ACTIVE
1,4-naphthoquinone	ACTIVE
Colorant	ACTIVE
2-Propanone, oxime	ACTIVE
phosphorous acid	ACTIVE
Colorant	ACTIVE
Deionized water	ACTIVE

- Canadian substance listings:

Canadian Substance notings.			
- Cana	- Canadian Domestic Substances List (DSL)		
CAS: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate		
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol		
CAS: 39382-25-7	2-Butenedioic acid (2E)-, polymer with α,α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]		
CAS: 67762-90-7	Amorphous Silica		
CAS: 57-55-6	propane-1,2-diol		
CAS: 128-44-9	Saccharin		
CAS: 80-15-9	dimethylbenzyl hydroperoxide		
CAS: 114-83-0	2'-phenylacetohydrazide		
CAS: 98-82-8	cumene		
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate		
CAS: 5080-22-8	N-isopropylhydroxylamine		
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: 91-44-1	Colorant		
CAS: 13598-36-2	phosphorous acid		
CAS: 85-83-6	Colorant		
CAS: 7732-18-5	Deionized water		
- Cana	- Canadian Ingredient Disclosure list (limit 0.1%)		
	None of the ingredients is listed.		
- Cana	- Canadian Ingredient Disclosure list (limit 1%)		
CAS: 57-55-6 pro	CAS: 57-55-6 propane-1,2-diol		

- 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 the latest revision of the safety data sheet 04/08/2019 / 48
 - Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

IATA: International AIT 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)
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

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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- * Data compared to the previous version altered.

- Disclaimer

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