



## Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/04/2024

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## **1** Identification

## - Product identifier

- Trade name: Vibra-TITE® Threadlocker
  - Synonyms: 121 Medium Strength Threadlocker
  - Part number: VT121
  - 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



- Signal word Warning

#### - Hazard-determining components of labeling:

2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Cumene

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.

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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.
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	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 Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	45 – 70% w/w
CAS: 80-15-9 dimethylbenzyl hydroperoxide 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		0.1 – 1% w/w
CAS: 114-83-0	2'-phenylacetohydrazide 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	0.1 – 1% w/w
CAS: 98-82-8	Cumene 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	≤ 0.1% w/w

## **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.

#### 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.

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## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures 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.
   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:

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: 80-15-9	dimethylbenzyl hydroperoxide
WEEL (USA)	TWA: 6 mg/m³, 1 ppm Skin
CAS: 98-82-8	Cumene
EL (Canada)	STEL: 75 ppm TWA: 25 ppm IARC 2B
EV (Canada)	TWA: 245 mg/m³, 50 ppm Skin
PEL (USA)	TWA: 245 mg/m³, 50 ppm Skin
REL (USA)	TWA: 245 mg/m³, 50 ppm Skin
TLV (USA)	TWA: 5 ppm 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.

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- Protection of hands:



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 chemical properties				
- General Information				
- Appearance: - Form:	Liquid			
- Color:	Liquid Blue			
- Odor:	Characteristic			
- Odor threshold:	Not determined.			
- pH-value:	Not determined.			
•	Not determined.			
- Change in condition				
- Melting point/Melting range:	Undetermined.			
- Boiling point/Boiling range:	≥ 200 °C			
- Flash point:	95 °C			
- Flammability (solid, gaseous):	Not applicable.			
- 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 at 20 °C:	n.a. hPa			
- Density at 20 °C: ~ 1.07 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/wa	ter): Not determined.			
- Viscosity:				
- Dynamic:	Not determined.			
- Kinematic:	Not determined.			
- Solvent content:				
<ul> <li>Organic solvents:</li> </ul>	1.0 %			
- Water: 0.4 % - VOC content: 0.98 %				
		<ul> <li>~ 10.5 g/l / ~ 0.09 lb/gal</li> <li>- Solids content: 96.1 %</li> </ul>		
- Other information	No further relevant information available.			
	(0.11)			

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## 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 (Acute Toxicity Estimate)

Inhalative LC50/4 h 26,190 mg/l (rat)

#### 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: 114-83-0 2'-phenylacetohydrazide

Oral	LD50	270 mg/kg (mouse)
CAS: 98-8	2-8 Cume	ne
Oral	LD50	1,400 mg/kg (rat)
Demo		10 200 m = /// = (m=h=h=i+h)

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

- IARC (International Agency for Research on Cancer)		
CAS: 98-82-8 Cum	ene	2B
CAS: 13463-67-7 titani	um dioxide	2B
- NTP (National Toxicology Program)		
CAS: 98-82-8 Cumen	e	R
CAS: 130-15-4 1,4-nap	hthoquinone	R
40 Feelenieel information		

## 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.

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CAS: 617-94-7

CAS: 91-44-1

CAS: 130-15-4

2-Phenyl-2-propanol

1,4-naphthoquinone

Colorant

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ade name. visie	a-TITE® Threadlocker	
B Disposal cons	siderations	(Contd. of
· · Waste treatmer		
		r with household garbage. Do not allow product to reach sewage system.
- Uncleaned pac - Recommen	<b>kagings:</b> <b>dation:</b> Disposal must be made accordir	ng to official regulations.
Transport info	ormation	
- UN-Number		
	DR, ADN, IMDG, IATA	not regulated
UN proper ship - DOT/TDG, A	ping name IDR, ADN, IMDG, IATA	not regulated
Transport haza	rd class(es)	
	DR, ADN, IMDG, IATA	
- Class		not regulated
Packing group - DOT/TDG, A	DR, IMDG, IATA	not regulated
Environmental - Marine pollu		No
Special precau	tions for user	Not applicable.
	Ilk according to Annex II of MARP	••
and the IBC Co		Not applicable.
UN "Model Reg	ulation":	not regulated
Regulatory in	formation	
itogulatory in		
	and environmental regulations/legits to the second structure to the second structure of the second str	islation specific for the substance or mixture
	on 355 (extremely hazardous subs	stances):
None of the ingred		
•	on 313 (Specific toxic chemical lis	tings).
	nethylbenzyl hydroperoxide	ungoj.
CAS: 98-82-8 Cu		
CAS: 98-86-2 ace	atophenone	
- TSCA (T	oxic Substances Control Act):	
	ave the value ACTIVE.	
	n substance listings:	
	dian Domestic Substances List (D	(\$1.)
	2-(2-methylprop-2-enoyloxy)ethyl 2-meth	
	Tetraethylene glycol hexoate	7.5.5F = 010000
CAS: 67762-90-7		
CAS: 128-44-9	Saccharin	
CAS: 57-55-6	propane-1,2-diol	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	
CAS: 7732-18-5	Deionized water	
CAS: 114-83-0	2'-phenylacetohydrazide	
CAS: 98-82-8	Cumene	
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate	2
CAS: 13463-67-7	titanium dioxide	
CAS: 5080-22-8	N-isopropylhydroxylamine	
CAS: 98-86-2	acetophenone	
CAS: 617 04 7	2-Phenyl-2-propanol	

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

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CAS: 2809-21-4	1-hydroxyethane-1,1-diylbis(phosphonic acid)		
CAS: 13598-36-2	2 phosphorous acid		
- Cana	adian Non-Domestic Substances List (NDSL)		
CAS: 127-06-0 2	2-Propanone, oxime		
- Cana	adian Ingredient Disclosure list (limit 0.1%)		
None of the ingre	None of the ingredients is listed.		
- Cana	adian Ingredient Disclosure list (limit 1%)		
None of the ingre	dients 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

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