



# Safety Data Sheet

acc. to OSHA HCS

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## **1** Identification

## - Product identifier

- Trade name: Vibra-TITE® Threadlocker

- Synonyms: S121 Medium Strength Threadlocker Stick
- Part number: VTS121
- 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



Skin Irritation 2H315 Causes skin irritation.Eye Irritation 2AH319 Causes serious eye irritation.Sensitization - Skin 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure 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 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/vapors/spray
- P264 Wash 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.
- P280 Wear eye protection / face protection.
- 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.
  - P312 Call a poison center/doctor if you feel unwell.
  - P362+P364 Take off contaminated clothing and wash it before reuse.

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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.	
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	i.
r hazarde		-

- 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-	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	59.21%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	≤ 1%
	Self-reactive substances and mixtures - Type F, H242; Organic Peroxides - Type E, H242; Acute Toxicity - Inhalation 3, H331; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable liquids 4, H227	
CAS: 114-83-0	2'-phenylacetohydrazide	≤ 1%
	Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 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.

## 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: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

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.

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## 7 Handling and storage

#### - Handling:

- Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- 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 constituent is the only constituent of the product which has 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 Long-term value: 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.

- 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: Required use of safety glasses
- Body protection: Protective work clothing

#### 9 Physical and chemical properties

- Information on basic physical and - General Information - Appearance:	l chemical properties	
- Form:	Pasty	
- Color:	Blue	
- Odor:	Mild	
- Odor threshold:	Not determined.	

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- pH-value:	Not applicable.	
- Change in condition		
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.	
<ul> <li>Boiling point/Boiling range:</li> </ul>	≥ 200 °C (≥ 392 °F)	
- Flash point:	≥ 95 °C (≥ 203 °F)	
- Flammability:	Not determined.	
- 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 (68 °F):	n.a. hPa	
- Density at 20 °C (68 °F):	~ 1.0665 g/cm³ (~ 8.89994 lbs/gal)	
- Relative density	Not determined.	
- Vapor density	Not applicable.	
- Evaporation rate	Not applicable.	
<ul> <li>Solubility in / Miscibility with</li> </ul>		
- Water:	Soluble.	
- Partition coefficient (n-octanol/wa	ater): Not determined.	
- Viscosity:		
- Dynamic:	Not applicable.	
- Kinematic:	Not applicable.	
- Solvent content:		
<ul> <li>Organic solvents:</li> </ul>	0.9 %	
- Water:	0.4 %	
- VOC content:	0.91 %	
- Solids content:	96.4 %	
Other information	No further relevant information available.	
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:

- LL	D/LC50 v	alues that are relevant for classification:
ATE (Acut	te Toxicity	/ Estimate)
Inhalative	LC50/4 h	28,162 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: 114-	-83-0 2'-ph	ienylacetohydrazide
Oral	LD50	270 mg/kg (mouse)

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(Contd. of page 4) - 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 Cumene 2B CAS: 13463-67-7 titanium dioxide 2B - NTP (National Toxicology Program) CAS: 98-82-8 Cumene R CAS: 130-15-4 1,4-naphthoquinone R - 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.

- Recommended cleansing agent: Water, if necessary with cleansing agents.

#### 14 Transport information

- UN-Number		
- DOT, IMDG, IATA	not regulated	
- UN proper shipping name - DOT, IMDG, IATA	not regulated	
- Transport hazard class(es)		
- DOT, ADN, IMDG, IATA - Class	not regulated	
- Packing group - DOT, IMDG, IATA	not regulated	
- Environmental hazards:	Not applicable.	
- Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex II of and the IBC Code</li> </ul>		
- UN "Model Regulation":	Not applicable.	

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# 15 Regulatory information

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

None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
CAS: 80-15-9 dimethylbenzyl hydroperoxide	
CAS: 98-82-8 Cumene	
CAS: 98-86-2 acetophenone	
- TSCA (Toxic Substances Control Act):	
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	ACTIV
Tetraethylene glycol hexoate	ACTIV
Amorphous Silica	ACTIV
Saccharin	ACTIV
propane-1,2-diol	ACTIV
dimethylbenzyl hydroperoxide	ACTIV
Deionized water	ACTIV
2'-phenylacetohydrazide	ACTIV
Cumene	ACTIV
tetrasodium ethylenediaminetetraacetate	ACTIV
titanium dioxide	ACTIV
N-isopropylhydroxylamine	ACTIV
acetophenone	ACTIV
2-Phenyl-2-propanol	ACTIV
Colorant	ACTIV
1,4-naphthoquinone	ACTIV
1-hydroxyethane-1,1-diylbis(phosphonic acid)	ACTIV
2-Propanone, oxime	ACTIV
phosphorous acid	ACTIV
- Hazardous Air Pollutants	

CAS: 98-86-2 acetophenone

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

## - Proposition 65

- Chemicals known to cause cancer:

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.

None of the ingreatence is instea.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Carcinogenic categories	
- EPA (Environmental Protection Agency)	
CAS: 98-82-8 Cumene	D, CBD
CAS: 98-86-2 acetophenone	D
- TLV (Threshold Limit Value)	
CAS: 13463-67-7 titanium dioxide	A4
- NIOSH-Ca (National Institute for Occupational Safety and Health)	
CAS: 13463-67-7 titanium dioxide	

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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## 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) EALTH 2 Health = 2
    - 1 Fire = 1 REACTIVITY 0 Reactivity = 0

- NFPA ratings (scale 0 - 4)



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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 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 NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable liquids 4: Flammable liquids – Category 4 Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F Organic Peroxides - Type E: Organic peroxides - Type E/F Acute Toxicity - Oral 4: Acute toxicity - Category 4 Acute Toxicity - Inhalation 3: Acute toxicity - Category 3 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Skin Irritation 2: Skin corrosion/irritation - Category 2 Eve Damage 1: Serious eve damage/eve irritation – Category 1 Eye Damage 1: Serious eye damage/eye irritation – Category 1 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Skin 1: Skin sensitisation – Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 Aspiration Hazard 1: Aspiration hazard – Category 1 - \* Data compared to the previous version altered. Disclaimer

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