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# Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2024 Reviewed on 01/17/2024

## 1 Identification

#### - Product identifier

- *Trade name:* Vibra-TITE® Threadlocker

- Synonyms: 111 Low Strength Threadlocker

- Part number: VT111

- 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



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irritation 2

Eye Irritation 2A

Sensitization - Skin 1

Specific Target Organ Toxicity - Single Exposure 3

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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:

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

dimethylbenzyl hydroperoxide

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.

H373 May cause damage to organs through prolonged or repeated exposure.

## - Precautionary statements

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

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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/protective clothing/eye protection/face protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	8 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.
P314	Get medical advice/attention 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.
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.

#### - 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: 25852-47-5 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate		50 – 59%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	1 – 4%
	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 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	≤ 1%
CAS: 98-82-8	Cumene Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	≤ 1%

# 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: Use fire fighting measures that suit the environment.
- 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:

At this time, the other constituents have no known exposure limits.

30-15-9 dimethylbenzyl hydroperoxide		
Long-term value: 6 mg/m³, 1 ppm Skin		
98-82-8 Cumene		
Long-term value: 245 mg/m³, 50 ppm Skin		
Long-term value: 245 mg/m³, 50 ppm Skin		
Long-term value: 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.

# - Protection of hands:



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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 che	mical properties
- General Information	
- Appearance:	
- Form:	Liquid
- Color:	Violet
- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- 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:	131 °C (267.8 °F)
- 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 (68 °F):	n.a. hPa
- Density:	Not determined.
- 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:	0.6 %
- Water:	1.3 %
- VOC content:	0.62 %
	6.2 g/l / 0.05 lb/gal
- Solids content:	95.5 %
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.

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- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:

Aldehyde

Hydrocarbons

# 11 Toxicological information

# - Information on toxicological effects

- Acute toxicity:

- <i>LI</i>	D/LC50 v	alues that are relevant for classification:	
ATE (Acute Toxicity Estimate)			
Oral	LD50	25,265 mg/kg (rat)	
Dermal	LD50	33,069 mg/kg (rat)	
Inhalative	LC50/4 h	14,550 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-	CAS: 114-83-0 2'-phenylacetohydrazide		
Oral	LD50	270 mg/kg (mouse)	
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)	

- 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

- IAF	RC (International Agency for Research on Cancer)	
CAS: 98-82-8	Cumene	2E
CAS: 13463-67	-7 titanium dioxide	2E
CAS: 111-76-2	2-butoxyethanol	3
- NT	P (National Toxicology Program)	
CAS: 98-82-8	Cumene	F
CAS: 130-15-4	1,4-naphthoquinone	F
- OS	HA-Ca (Occupational Safety & Health Administration)	
None of the ing	redients 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.

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# 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.

•		
4 Transport information		
- UN-Number		
- DOT, ADN, IMDG, IATA	not regulated	
- UN proper shipping name - DOT, ADN, IMDG, IATA	not regulated	
- Transport hazard class(es)		
- DOT, ADN, IMDG, IATA		
- Class	not regulated	
- Packing group		
- DOT, IMDĠ, IATA	not regulated	
- Environmental hazards:		
- Marine pollutant:	No	
- Special precautions for user	Not applicable.	
- Transport in bulk according to Annex II of	f MARPOL73/78	
and the IBC Code	Not applicable.	
- UN "Model Regulation":	not regulated	

# 15 Regulatory information

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

- Section 355 (extremely hazardous substances):				
None of the ingredients is listed.				
- Section 313 (Specific toxic chemical listings):				
CAS: 80-15-9	dimethylbenzyl hydroperoxide			
CAS: 98-82-8	Cumene			
CAS: 111-76-2	2-butoxyethanol			
- TSCA	- TSCA (Toxic Substances Control Act):			
All components	All components have the value ACTIVE.			
- Hazardous Air Pollutants				
CAS: 98-82-8	Cumene			
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.
- 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: 111-76-2	2-butoxyethanol	NL

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(Contd. of page 6) - TLV (Threshold Limit Value) CAS: 13463-67-7 titanium dioxide **A4** CAS: 111-76-2 2-butoxyethanol A3 - 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.

# 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 preparation / last revision 01/23/2024

#### - Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by

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: verv Persistent and verv 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 3: Flammable liquids – Category 3

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
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

Carcinogenicity 2: Carcinogenicity - Category 2

Specific Target Organ Toxicity - Śingle Expośure 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.

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