



Safety Data Sheet

acc. to OSHA HCS

Printing date 12/19/2016

Reviewed on 12/06/2016

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Threadlocker
 - Synonyms: 146 Large Diameter / High Strength Threadlocker
 - Part number: VT146

- 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

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 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:* Polyglycol dimethacrylate
- dimethylbenzyl hydroperoxide

- Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

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- Precautionary statements
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P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P302+P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see on this label).
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Trade name: Vibra-TITE® Threadlocker

Reviewed on 12/06/2016

	tion system: ratings (scale 0 - 4)	ontd. of page 1
	Health = 1 Fire = 1 Reactivity = 0	
- HMIS-	ratings (scale 0 - 4)	
HEALTH FIRE REACTIVI	Health = *1 Fire = 1 Por Reactivity = 0	
	s of PBT and vPvB assessment T: Not applicable.	
- vP Compos - Chemical	/B: Not applicable. ition/information on ingredients characterization: Mixtures	
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- vP Compos - Chemical - Descr - Dange	/B: Not applicable. ition/information on ingredients characterization: Mixtures	50-59%
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- vP Compos - Chemical - Descr - Dange 25852-47-5	/B: Not applicable. ition/information on ingredients characterization: Mixtures ption: Mixture of the substances listed below with nonhazardous additions. rous components: Polyglycol dimethacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 Polyester Resin	-

- 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. 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.

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.

(Contd. of page 2)

38 mg/m3

Reviewed on 12/06/2016

Printing date 12/19/2016

Trade name: Vibra-TITE® Threadlocker

- 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. - Protective Action Criteria for Chemicals - PAC-1: 25852-47-5 Polyglycol dimethacrylate 30 mg/m3 80-15-9 dimethylbenzyl hydroperoxide 0.15 ppm 57-55-6 Propylene glycol 30 mg/m3 67762-90-7 Synthetic amorphous silica (fumed) 120 mg/m3 130-15-4 1,4-naphthoguinone 0.57 mg/m3 - PAC-2: 25852-47-5 Polyglycol dimethacrylate 330 mg/m3 80-15-9 dimethylbenzyl hydroperoxide 1.6 ppm 57-55-6 Propylene glycol 1,300 mg/m3 67762-90-7 Synthetic amorphous silica (fumed) 1,300 mg/m3 6.3 mg/m3 130-15-4 1,4-naphthoquinone - PAC-3: 25852-47-5 Polyglycol dimethacrylate 2,000 mg/m3 80-15-9 dimethylbenzyl hydroperoxide 9.7 ppm 57-55-6 Propylene glycol 7,900 mg/m3 67762-90-7 Synthetic amorphous silica (fumed) 7,900 mg/m3

7 Handling and storage

130-15-4 1,4-naphthoquinone

- 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 item 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.

80-15-9 dimethylbenzyl hydroperoxide

WEEL Long-term value: 6 mg/m³, 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.

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 3)

Reviewed on 12/06/2016

- 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 - Information on basic physical and chemical properties - General Information - Appearance: - Form: Liquid - Color: Red - Odor: Characteristic - Odor threshold: Not determined. - pH-value: Not determined. - Change in condition - Melting point/Melting range: Undetermined. - Boiling point/Boiling range: 200 °C (392 °F) - Flash point: 131 °C (268 °F) - Flammability (solid, gaseous): Not applicable. - Ignition temperature: - Decomposition temperature: Not determined. Product is not selfigniting. - Auto igniting: - Danger of explosion: Product does not present an explosion hazard. - Explosion limits: - Lower: Not determined. - Upper: Not determined. - Vapor pressure: Not determined. - 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/water): Not determined. - Viscosity: - Dynamic: Not determined. - Kinematic: Not determined. - Solvent content: Organic solvents: 0.8 % - Water: 0.1 %

Trade name: Vibra-TITE® Threadlocker

			(Contd. of page 4
- V	OC conte	nt: 0.8 %	
		8.1 g/l / 0.07 lb/gl	
- S	olids con	tent: 96.7 %	
- Other in	formatio	No further relevant information available.	
) Stability	y and rea	activity	
- Chen - Ti - Possibil - Conditio - Incompa - Hazardo Aldehyde Hydrocarb 1 Toxicol - Informat	nical stat hermal d ity of haz ons to ave atible mat ous decor oons ogical in	accomposition / conditions to be avoided: No decomposition if used according to specificat ardous reactions No dangerous reactions known. No further relevant information available. erials: No further relevant information available. mposition products: formation xicological effects	ions.
		alues that are relevant for classification:	
		nzyl hydroperoxide	
Oral	LD50	382 mg/kg (rat)	
Dermal	LD50	500 mg/kg (rat)	
Inhalative	LC50/4 h	220 mg/l (rat)	
128-44-9	Saccharin		
Oral	LD50	1280 mg/kg (rat)	
- P	rimary iri	itant effect:	
		s kin: Irritant to skin and mucous membranes.	
		eye: Irritating effect.	
		on: No sensitizing effects known.	
		icological information:	
I ne pi Irritant		vs the following dangers according to internally approved calculation methods for preparations:	
	-		
		nic categories	

 IARC (International Agency for Research on Cancer) 	
85-83-6 Colorant	3
- NTP (National Toxicology Program)	
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.

Trade name: Vibra-TITE® Threadlocker

Reviewed on 12/06/2016

	(Contd. of pag
3 Disposal considerations	
- Waste treatment methods - Recommendation: Must not be disposed	l of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings: - Recommendation: Disposal must be made	de 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, IMDG, IATA 	not regulated
- Environmental hazards: - Marine pollutant:	No
- Special precautions for user	Not applicable.
- Transport in bulk according to Annex II and the IBC Code	of MARPOL73/78 Not applicable.
- UN "Model Regulation":	not regulated

*15 Regulatory information

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

- Sara - Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
80-15-9 dimethylbenzyl hydroperoxide	
- TSCA (Toxic Substances Control Act):	
Polyglycol dimethacrylate	
dimethylbenzyl hydroperoxide	
Saccharin	
Propylene glycol	
2'-phenylacetohydrazide	
Colorant	
Synthetic amorphous silica (fumed)	
1,4-naphthoquinone	
Deionized water	
- Proposition 65	
- Chemicals known to cause cancer:	
None of the ingredients is listed.	
 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)	
None of the ingredients is listed.	

Trade name: Vibra-TITE® Threadlocker

(Contd. of page 6)

Reviewed on 12/06/2016

- TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)

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

Date of preparation / last revision 12/19/2016 / 14

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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 ACGIH: American Conference of Governmental Industrial Hygienists

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 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

Flam. Liq. 4: Flammable liquids – Category 4 Self-react. F: Self-reactive substances and mixtures – Type E/F

Org. Perox. E: Organic peroxides - Type E/F

Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

- * Data compared to the previous version altered.

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