



Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 01/03/2018

### 1 Identification

### - Product identifier

- Trade name: Vibra-TITE® UV Adhesive
  - Synonyms: 216 UV Structural Adhesive
  - Part number: VT216
  - Application of the substance / the mixture Adhesives

### - 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



12

H361 Suspected of damaging fertility or the unborn child.

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

#### Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05 GHS07 GHS08

- Signal word Danger
- Hazard-determining components of labeling:
- Acrylic Esters

acrylic acid Phosphine oxide

- 2-hydroxyethyl methacrylate - Hazard statements
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.
- 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/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P280	Wear protective gloves.	
P280	Wear eye protection / face protection.	
P302+P352	If on skin: Wash with plenty of water.	
P305+P351+P338	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas	y to do.
	Continue rinsing.	-
P310	Immediately call a poison center/doctor.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P321	Specific treatment (see on this label).	
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.	
P363	Wash contaminated clothing before reuse.	
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)



### - 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.

-	Urethane acrylate Oligomer	40 - 49%
	Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
CAS: 7534-94-3	Isobornyl Methacrylate Skin Irrit, 2, H315; Eve Irrit, 2A, H319	19.92%
CAS: 5888-33-5	Acrylic Esters Skin Sens. 1B, H317	10 – 19%
CAS: 868-77-9	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	10 – 19%
CAS: 79-10-7	acrylic acid Flam. Liq. 3, H226; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	1 – 4%
CAS: 2530-83-8	Silane Eye Dam. 1, H318	1 – 4%
CAS: 75980-60-8	Phosphine oxide Repr. 2, H361; Skin Sens. 1, H317	1 – 4%
CAS: 7473-98-5	Photoinitiator Acute Tox. 4, H302	1 – 4%

### 4 First-aid measures

#### - Description of first aid measures

- After inhalation:

- Supply fresh air and to be sure call for a doctor.
- 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.

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- 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. CO2, sand, extinguishing powder. Do not use water.

- 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:

Inform respective authorities in case of seepage into water course or sewage system.

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

- 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.

- 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.

#### CAS: 79-10-7 acrylic acid REL Long-term value: 6 mg/m<sup>3</sup>, 2 ppm Skin

TLV Long-term value: 5.9 mg/m<sup>3</sup>, 2 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.

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Wash hands before breaks and at the end of work.

- Avoid contact with the eyes and skin.
- Breathing equipment:
- 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.

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

Physical and chemical properties	
<ul> <li>Information on basic physical and cher</li> <li>General Information</li> <li>Appearance:</li> </ul>	mical properties
- Form:	Gel
- Color:	Clear
- Odor:	Characteristic
<ul> <li>Odor threshold:</li> </ul>	Not determined.
- pH-value:	Not determined.
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	Undetermined. ≥ 213 °C (≥ 415.4 °F)
- Flash point:	97 °C (206.6 °F)
- Flammability (solid, gaseous):	Not applicable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
- Auto igniting:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Explosion limits: - Lower: - Upper:	Not determined. Not determined.
- Vapor pressure at 68 °C (154.4 °F):	≤ 1.3 hPa (≤ 1 mm Hg)
- Density at 20 °C (68 °F):	~ 1.04673 g/cm <sup>3</sup> (~ 8.73496 lbs/gal)
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
<ul> <li>Solubility in / Miscibility with</li> <li>Water:</li> </ul>	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wate	r): Not determined.
- Viscosity:	
- Dynamic at 20 °C (68 °F):	30,000 mPas
- Kinematic:	Not determined.

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- Solvent content:		
<ul> <li>VOC content:</li> </ul>	0.00 %	
	0.0 g/l / 0.00 lb/gal	
- Solids content:	1.8 %	
- 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: No dangerous decomposition products known.

### 11 Toxicological information

Information on toxicological effects

- Acute toxicity:

- LI	D/LC50 v	alues that are relevant for classification:
ATE (Acut	e Toxicity	r Estimate)
Oral	LD50	6,167 mg/kg (rat)
Dermal	LD50	7,216 mg/kg (rabbit)
Inhalative	LC50/4 h	284 mg/l
CAS: 868-	77-9 2-hyd	droxyethyl methacrylate
Oral	LD50	5,050 mg/kg (rat)
CAS: 79-1	0-7 acrylic	c acid
Oral	LD50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
CAS: 7598	30-60-8 Ph	nosphine oxide
Oral	LD50	> 5,000 mg/kg (rat)
CAS: 7473	3-98-5 Pho	otoinitiator
Oral	LD50	1,694 mg/kg (rat)
- Pi	rimary irr	ritant 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: 79-10-7 acrylic acid	3
- NTP (National Toxicology Program)	
None of the ingredients is listed.	
- 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.

- Ecotoxical effects:

Remark: Toxic for fish

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(Contd. of page 5) - 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. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms - 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 NA3082 - ADN, IMDG, IATA not regulated - UN proper shipping name - DOT Environmentally hazardous substance, liquid, n.o.s. (Isobornyl Acrylate, diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) - ADN, IMDG, IATA not regulated - Transport hazard class(es) - DOT - Class 9 Miscellaneous dangerous substances and articles - Label q - ADN/R Class: not regulated - Packing group - DOŤ Ш - IMDG, IATA not regulated - Environmental hazards: Marine pollutant: No Yes (DOT) - Special precautions for user Not applicable. - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. - Transport/Additional information: - DOT Quantity limitations On passenger aircraft/rail: No limit On cargo aircraft only: No limit - Remarks: Special marking with the symbol (fish and tree). - UN "Model Regulation": not regulated 15 Regulatory information - Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	

- Section 313 (Specific toxic chemical listings):

CAS: 79-10-7 acrylic acid

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Iseborny Methacrylate Phylorylate Phyloryl	- TSCA (To	xic Substances Control Act):
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arrylic acid Silanc Phosphine oxide Phosphine Phosph		acrylate
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TSCA new (21st Century Act): (Substances not listed) Urdthare acrylate Oligomer         Hazardous Air Pollutants CAS: 76-10-7 [acrylic add         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 reproductive toxicity for males: 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.         Chemicals known to cause developmental toxicity: None of the ingredients is listed.         Chemicals known to cause developmental toxicity: None of the ingredients is listed.         Chemicals known to cause developmental toxicity: None of the ingredients is listed.         Chemicals known to cause developmental toxicity: None of the ingredients is listed.         Chemicals known to cause developmental toxicity: None of the ingredients is listed.         Tu (Threshold Limit Value established by ACGIH)         CAS: 79-10-7 [acrylic acid         //         NIOSH-Ca (Mational Institute for Occupational Safety and Health) None of the ingredients is listed.         Chemical safety assessment: A Chemical Safety Assessment has not been carried out.         Other information         This information our present knowledge. However, this shall not constitute a guarantee for any specific product features an shall not stabilish a leggly valid contractual relationship.         Department issuing SDS: ND Industries ( Cause and the ingredients and thermited on any specific product features an shall not stabilish a length valid contractual relationship.         Cher of preparation / last revision 03/06/2019 / 8         Abbrevalidins and Ar Tarringer Ascalator (MAR)         KAR Acced aurop		
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<ul> <li>Abbreviations and acronyms:</li> <li>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</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transport Association</li> <li>ACGIH: American Conference of Governmental Industrial Hygienists</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>ELINCS: European Inte of Notified Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>VOC: Volatile Organic Compounds (USA, EU)</li> <li>LCS0: Lethal concentration, 50 percent</li> <li>DBT: Persistent, Bioaccumulative and Toxic</li> <li>vPWB: very Persistent and very Bioaccumulative</li> <li>NIOSH: National Institute for Occupational Safety</li> <li>OGSH: Cocupational Safety &amp; Health</li> <li>TLV: Threshold Limit Value</li> <li>PEL: Permissible Exposure Limit</li> <li>REL: Recommended Exposure Limit</li> <li>Flammable liquids – Category 1</li> <li>Skin Corr. 1A: Skin corrosion/irritation – Category 1</li> <li>Ey lint: 28: Serious eye damage/eye irritation – Category 2</li> <li>Eye Dam. 1: Serious eye damage/eye irritation – Category 1</li> <li>Skin Sens. 11: Skin sensilisation – Cat</li></ul>	Contact: Safety, H	lealth and Environmental Affaires
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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, ELU) LCS0: Lethal concentration, 50 percent DEC (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, 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 1 Skin Corr. 1A: Skin corrosion/irritation – Category 1 Eye Inrit. 28: Serious eye damage/eye irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 2 Eye Irrit. 28: Serious eye damage/eye irritation – Category 2 Eye Irrit. 28: Serious eye damage/eye irritation – Category 2 Eye Irrit. 28: Serious eye damage/eye irritation – Category 2 Eye Irrit. 28: Serious eye damage/eye irritation – Category 2 Eye Irrit. 28: Serious eye damage/eye irritation – Category 2 Eye Irrit. 28: Serious eye damage/eye irritation – Category 2 Eye Irrit. 28: Serious eye damage/eye irritation – Category 2 Eye Irrit. 28: Serious eye damage/eye irritation – Category 28 Skin Sens. 11: Skin sensitisation – Category 18	IMDG: International I	Aaritime Code for Dangerous Goods
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Repr. 2: Reproductive toxicity – Category 2 - \* Data compared to the previous version altered.

# Safety Data Sheet acc. to OSHA HCS

Printing date 03/06/2019

### Trade name: Vibra-TITE® UV Adhesive

(Contd. of page 7)

Reviewed on 01/03/2018

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