



Reviewed on 03/05/2019

Safety Data Sheet acc. to OSHA HCS

Froduct identifier
- <i>Trade name:</i> Vibra-TITE® UV Adhesives
- Synonyms: 297 Acrylic UV - Visible w/Fluorescence Light Cure
 Part number: VT297 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
GHS06 Skull and crossbones
Acute Tox. 3 H301 Toxic if swallowed.
GHS08 Health hazard
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
GHS05 Corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.
GHS07
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Sens. 1 H317 May cause an allergic skin reaction. 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
GHS05 GHS06 GHS07 GHS08
- <i>Signal word</i> Danger
- <i>Hazard-determining components of labeling:</i> Urethane triacrylate oligomer N,N-dimethylacrylamide Acrylic Esters Tetrahydrofurfuryl acrylate Tripropylene diacrylate Di(ethylene glycol) ethyl ether acrylate Phosphine oxide

Printing date 03/06/2019

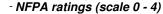
1 Identification - Product identifier

Trade name: Vibra-TITE® UV Adhesives

Reviewed on 03/05/2019

(Contd. of page 1) - Hazard statements H301 Toxic if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H335 May cause respiratory irritation. - Precautionary statements P260 Do not breathe dusts or mists. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash face, hands and any exposed skin 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 protective gloves / protective clothing. Wear eye protection / face protection. P280 P301+P310 If swallowed: Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P333+P313 If skin irritation or rash occurs: 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.

Classification system:





- HMIS-ratings (scale 0 - 4)

EALTH *3	Health = *3
IRE 1	Fire = 1
EACTIVITY 0	Reactivity = 0

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:	
	Aliphatic urethane acrylate oligomer	10 – 19%
	STOT SE 3, H335	
CAS: 5888-33-5	Acrylic Esters	10 – 19%
	Skin Sens. 1B, H317	
	Urethane triacrylate oligomer	10 – 19%
	Acute Tox. 3, H301; STOT SE 3, H335; Eye Irrit. 2B, H320	
CAS: 2680-03-7	N,N-dimethylacrylamide	10 – 19%
	Acute Tox. 3, H301; Acute Tox. 3, H311; Eye Dam. 1, H318; Flam. Liq. 4, H227	
	Tetrahydrofurfuryl acrylate	4.54%
	Acute Tox. 3, H301; Skin Corr. 1B, H314; Eye Irrit. 2A, H319; STOT SE 3, H335; Flam. Liq. 4, H227	
	Tripropylene diacrylate	4.54%
	Skin Irrit. 2, H315; Skin Sens. 1B, H317; STOT SE 3, H335	
CAS: 7328-17-8	Di(ethylene glycol) ethyl ether acrylate	4.54%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	

Safety Data Sheet acc. to OSHA HCS

Printing date 03/06/2019

Trade name: Vibra-TITE® UV Adhesives

		(Contd. of page
CAS: 79-10-7	acrylic acid	4.54%
	Flam. Liq. 3, H226; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	-
CAS: 947-19-3	Photoinitiator	1 – 4%
	Combustible Dust	-
CAS: 75980-60-8	Phosphine oxide	1 – 4%
	Repr. 2, H361; Skin Sens. 1, H317	-
CAS: 2530-83-8	Silane	1 – 4%
	Eye Dam. 1, H318	-
CAS: 7473-98-5	Photoinitiator	1 – 4%
	Acute Tox. 4, H302	-

4 First-aid measures

- Description of first aid measures

- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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. Then consult a doctor.
- After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a 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.

- CO2, sand, extinguishing powder. Do not use water.
- Use fire fighting measures that suit the environment.
- 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:
- Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

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.

Trade name: Vibra-TITE® UV Adhesives

(Contd. of page 3)

Reviewed on 03/05/2019

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/m³, 2 ppm
- Skin
- TLV Long-term value: 5.9 mg/m³, 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.
- 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:



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

Trade name: Vibra-TITE® UV Adhesives

Reviewed on 03/05/2019

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Physical and chemical properties		
Information on basic physical and ch	nemical properties	
- General Information		
 Appearance: Form: 	Lieuid	
- Color:	Liquid Clear	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
 Melting point/Melting range: 	Undetermined.	
 Boiling point/Boiling range: 	≥ 81 °C (≥ 177.8 °F)	
- Flash point:	100 °C (212 °F)	
 Flammability (solid, gaseous): 	Not applicable.	
 Decomposition temperature: 	Not determined.	
- Auto igniting:	Product is not selfigniting.	
 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/wa		
- Viscosity:		
- Dynamic at 20 °C (68 °F):	320 mPas	
- Kinematic:	Not determined.	
- Solvent content:		
- VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
- Solids content:	5.9 %	
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:	

- LD/LC50 values that are relevant for classification:

ATE (Acu	te Toxicity	v Estimate)
Oral	LD50	234 mg/kg
Dermal	LD50	1,302 mg/kg
Inhalative	LC50/4 h	242 mg/l

Trade name: Vibra-TITE® UV Adhesives

Reviewed on 03/05/2019

	Ania and - t-	(Contd. of p	Jaq
	triacrylate	•	
Oral	LD50	100 mg/kg (ATE)	
		-dimethylacrylamide	
Oral		100 mg/kg (ATE)	
Dermal		300 mg/kg (ATE)	
	rofurfuryl a	·	
Oral	LD50	100 mg/kg (ATE)	
CAS: 79-1	10-7 acrylic	acid	
Oral	LD50	250 mg/kg (rat)	
Dermal	LD50	280 mg/kg (rabbit)	
Inhalative	LC50/4 h	11 mg/l (ATE)	
CAS: 759	80-60-8 Ph	osphine oxide	
Oral	LD50	> 5,000 mg/kg (rat)	
CAS: 747	'3-98-5 Pho	toinitiator	
Oral	LD50	1,694 mg/kg (rat)	
	on the : on the c ensitizati tional tox	itant effect: skin: Caustic effect on skin and mucous membranes. eye: Strong caustic effect. on: Sensitization possible through skin contact. icological information:	
- Addi The p Harmi Corros Irritan Swallo	ful sive It owing will le Carcinoge	ws the following dangers according to internally approved calculation methods for preparations: ead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. nic categories	
- Addi The p Harmi Corros Irritan Swallo - C	ful sive It owing will le Carcinoge	ead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. nic categories International Agency for Research on Cancer)	

- 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: Very toxic for fish

- Additional ecological information:

- General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very 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.

(Contd. of page 6)

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Trade name: Vibra-TITE® UV Adhesives

Reviewed on 03/05/2019

- Recommendation: Disposal must be made according to official regulations.

UN-Number	
- DOT	not regulated
- IMDG, IATA	UN3082
UN proper shipping name	
- DOT	not regulated
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Tetrahydrofurfuryl acrylate, ACRYLIC ACID, STABILIZED), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Tetrahydrofurfuryl acrylate)
Transport hazard class(es)	
- DOT	
- Class	not regulated
- Label	-
- IMDG, IATA	
- Class	9 Miscellaneous dangerous substances and articles
- Label	9
Packing group	
- DOT	not regulated
- IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: Tripropylene diacrylate
- Marine pollutant:	Yes
• · · · · · · · · · · · · · · · · · · ·	Symbol (fish and tree)
 Special marking (IATA): 	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
- Danger code (Kemler):	80
- EMS Number:	F-A,S-F
- Segregation groups	Acids
- Stowage Category	Α
Transport in bulk according to Annex II of M. and the IBC Code	ARPOL73/78 Not applicable.
Transport/Additional information:	
- IMDG	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRAHYDROFURFURYL ACRYLATE), 9, III

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

 Section 355 (extremely hazardous substances): 	
None of the ingredients is listed.	
 Section 313 (Specific toxic chemical listings): 	
CAS: 79-10-7 acrylic acid	

Trade name: Vibra-TITE® UV Adhesives

Reviewed on 03/05/2019

 TSCA (Toxic Substances Control Act): 	
Acrylic Esters	
I,N-dimethylacrylamide	
Di(ethylene glycol) ethyl ether acrylate	
acrylic acid	
Photoinitiator	
Phosphine oxide	
Silane	
Photoinitiator	
2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)	
 TSCA new (21st Century Act): (Substances not listed) 	
Niphatic urethane acrylate oligomer	
Jrethane triacrylate oligomer	
Tetrahydrofurfuryl acrylate	
Fripropylene diacrylate	
- Hazardous Air Pollutants	
CAS: 79-10-7 acrylic acid	
- 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.	
- TLV (Threshold Limit Value established by ACGIH)	
CAS: 79-10-7 acrylic acid	
- NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
5	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
Other information	
This information is based on our present knowledge. However, this shall not constitute a guarantee for any sp shall not establish a legally valid contractual relationship.	ecific product features an
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Department issuing SDS: ND Industries, Inc Safety, Health and Environmental Affaires Contact: Safety, Health and Environmental Affaires	
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Trade name: Vibra-TITE® UV Adhesives

(Contd. of page 8)

Reviewed on 03/05/2019

Skin Corr. 1A: Skin corrosion/irritation – Category 1A 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 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.

- Disclaimer

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