



# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

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#### **1** Identification

#### - Product identifier

- Trade name: 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

GHS08 Health hazard

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

GHS05 Corrosion

Eye Damage 1 H318 Causes serious eye damage.

GHS07

Acute Toxicity - Oral 4H302 Harmful if swallowed.Acute Toxicity - Dermal 4H312 Harmful in contact with skin.Skin Irritation 2H315 Causes skin irritation.Sensitization - Skin 1H317 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



- Signal word Danger

- Hazard-determining components of labeling: N,N-dimethylacrylamide Acrylic Esters diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide acrylic acid Di(ethylene glycol) ethyl ether acrylate (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate Urethane acrylate oligomer

#### - Hazard statements

H302+H312 Harmful if swallowed or in contact with skin. H315 Causes skin irritation.

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	H318 C	(Solide of page
		auses serious eye damage.
		ay cause an allergic skin reaction.
		uspected of damaging fertility or the unborn child.
		ry statements
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P264	Wash thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	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.
	P280	Wear eye protection / face protection.
	P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
	P302+P352	If on skin: Wash with plenty of water.
	P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy 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).
	P330	Rinse mouth.
	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.
- Other	hazards	
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- 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: 5888-33-5	Acrylic Esters Sensitization - Skin 1B, H317	20 – 29%
CAS: 2680-03-7	N,N-dimethylacrylamide Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Eye Damage 1, H318; Flammable Liquids 4, H227	10 – 19%
	Urethane acrylate oligomer Sensitization - Skin 1B, H317; Eye Irritation 2B, H320	10 – 19%
	Urethane acrylate Oligomer Skin Irritation 2, H315; Eye Irritation 2B, H320	10 – 19%
CAS: 79-10-7	7 acrylic acid Flammable Liquids 3, H226; Skin Corrosion 1A, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332	
CAS: 2399-48-6	Tetrahydrofurfuryl acrylate Skin Irritation 2, H315; Eye Irritation 2A, H319	4.54%
CAS: 7328-17-8	Di(ethylene glycol) ethyl ether acrylate Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	4.54%
CAS: 42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335; Eye Irritation 2B, H320	4.54%
CAS: 947-19-3	Photoinitiator Combustible Dust	1 – 4%
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone Acute Toxicity - Oral 4, H302	1 – 4%
CAS: 75980-60-8		1 – 4%
CAS: 2530-83-8	Silane Eye Damage 1, H318	1 – 4%
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#### 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.
  - 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.

## 6 Accidental release measures

#### - Personal precautions, protective equipment and emergency procedures

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.

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: 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.
- 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: 79-10-7 acrylic acid

- REL Long-term value: 6 mg/m³, 2 ppm Skin TLV Long-term value: 2 ppm
  - Skin. A3

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- 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:**
  - Prot

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 che	emical properties	
- General Information		
- Appearance:		
- Form:	Liquid	
- Color:	Clear	
- 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>	≥ 81 °C (≥ 177.8 °F)	
- Flash point:	100 °C (212 °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:	Not determined.	
- Density at 20 °C (68 °F):	~ 1.03688 g/cm³ (~ 8.65276 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/wat	er): Not determined.	
- Viscosity:		
- Dynamic at 20 °C (68 °F):	320 mPas	

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- Kinematic:	Not determined.	
- Solvent content: - VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal	
- Solids content:	5.5 %	
- 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.

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

#### 11 Toxicological information

#### - Information on toxicological effects

#### - Acute toxicity:

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- LD/LC50 values that are relevant for classification:			
ATE (Acu	te Toxicity	r Estimate)	
Oral	LD50	498 mg/kg	
Dermal	LD50	1,302 mg/kg	
Inhalative	LC50/4 h	242 mg/l	
CAS: 268	0-03-7 N,N	-dimethylacrylamide	
Oral	LD50	100 mg/kg (ATE)	
Dermal	LD50	300 mg/kg (ATE)	
CAS: 79-1	0-7 acrylio	c acid	
Oral	LD50	250 mg/kg (rat)	
Dermal	LD50	280 mg/kg (rabbit)	
Inhalative	LC50/4 h	11 mg/l (ATE)	
CAS: 429	78-66-5 (1-	methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	
Oral	LD50	5,000 mg/kg (rat)	
CAS: 7473	CAS: 7473-98-5 2-hydroxy-2-methylpropiophenone		
Oral	LD50	1,694 mg/kg (rat)	
CAS: 759	80-60-8 dij	ohenyl(2,4,6- trimethylbenzoyl)phosphine oxide	
Oral	LD50	> 5,000 mg/kg (rat)	
- Pi	rimary irr	itant 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.

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ade name: VIDIA-III E® UV Adhesives	
- Behavior in environmental systems:	(Contd. of pag
- Bioaccumulative potential No further relevant informatic	n available
- Mobility in soil No further relevant information available.	
- Ecotoxical effects:	
- <b>Remark:</b> Very toxic for fish	
- Additional ecological information:	
- General notes:	
Water hazard class 3 (Self-assessment): extremely hazardou	
Do not allow product to reach ground water, water course or s Danger to drinking water if even extremely small quantities lea	
Also poisonous for fish and plankton in water bodies.	
Very toxic for aquatic organisms	
- Results of PBT and vPvB assessment	
- <b>PBT:</b> Not applicable.	
<ul> <li>- vPvB: Not applicable.</li> <li>- Other adverse effects No further relevant information availab</li> </ul>	
3 Disposal considerations	
- Waste treatment methods - Recommendation: Must not be disposed of together with	household garbage. Do not allow product to reach sewage system.
	nouseriold garbage. Do not allow product to reach sewage system.
<ul> <li>- Uncleaned packagings:</li> <li>- Recommendation: Disposal must be made according to c</li> </ul>	fficial regulations.
4 Transport information	
- UN-Number	
- DOT, IMDG, IATA	UN3082
- UN proper shipping name	
- DOT	Environmentally hazardous substance, liquid, n.o.s. (N,N-
1450	dimethylacrylamide, Acrylic acid, stabilized)
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-dimethylacrylamide, ACRYLIC ACID,
	STABILIZED), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (N,N-dimethylacrylamide, ACRYLIC ACID, STABILIZE
- Transport hazard class(es)	
- DOT, IMDG, IATA	
- Class	9 Miscellaneous dangerous substances and articles
- Label	9
- Packing group	
- DOT, ÎMDG, IATA	
- Environmental hazards:	Product contains environmentally hazardous substances: isoborny acrylate
- Marine pollutant:	Yes
	Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
- Special precautions for user	Warning: Miscellaneous dangerous substances and articles
<ul> <li>Hazard identification number (Kemler code):</li> </ul>	90
- EMS Number:	F-A,S-F
- Segregation groups	(SGG1) Acids
Stoward Cotogory	
- Stowage Category	Α
- Stowage Category - Transport in bulk according to Annex II of MARPOL73. and the IBC Code	

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- Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 450 L On cargo aircraft only: 450 L
- Remarks:	Special marking with the symbol (fish and tree).
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-DIMETHYLACRYLAMIDE, ACRYLIC ACID, STABILIZED), 9, III

#### 15 Regulatory information

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

- 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
- TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
- 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)

CAS: 79-10-7 acrylic acid

#### - 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

- Classification System:

- HMIS-ratings (scale 0 - 4)



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- 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 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 3: Flammable liquids – Category 3 Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity – Oral 3: Acute toxicity – Category 4 Acute Toxicity – Oral 4: Acute toxicity – Category 4 Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Skin Icritation 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 Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B Sensitization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 1B: Skin sensitisation - Category 1B Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 - \* Data compared to the previous version altered.

#### - Disclaimer

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