



Page 1/8

Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2024 Reviewed on 01/10/2024

1 Identification

- Product identifier

- Trade name: Vibra-TITE® UV Adhesive

- Synonyms: 220 Light Cure Adhesive

- Part number: VT220

- 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

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.



Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 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

Trifunctional acid ester

diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide methacrylic acid, monoester with propane-1,2-diol

- Hazard statements

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

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.

P260 Do not breathe dusts or mists.

Safety Data Sheet

Printing date 01/23/2024 Reviewed on 01/10/2024

Trade name: Vibra-TITE® UV Adhesive

(Contd. of page 1)

1 Avoid breathing dust/fume/gas/mist/vapors/spray

P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling.

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.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

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.

P310 Immediately call a poison center/doctor.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: 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

- 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:	
	Urethane acrylate Oligomer	30 – 39%
	Skin Irritation 2, H315; Eye Irritation 2B, H320	
CAS: 5888-33-5	Acrylic Esters	20 – 29%
	Sensitization - Skin 1B, H317	
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol	10 – 19%
	Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
CAS: 142-90-5	dodecyl methacrylate	10 – 19%
	Specific Target Organ Toxicity - Single Exposure 3, H335	
	Trifunctional acid ester	5 – 9%
	Skin Corrosion 1A, H314; Eye Damage 1, H318; Sensitization - Skin 1, H317	
CAS: 79-10-7	acrylic acid	1 – 4%
	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: 2530-83-8	Silane	1 – 4%
	Eye Damage 1, H318	
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	1 – 4%
	Toxic to Reproduction 2, H361; Sensitization - Skin 1, H317	
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone	1 – 4%
	Acute Toxicity - Oral 4, H302	

4 First-aid measures

- Description of first aid measures

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

Printing date 01/23/2024 Reviewed on 01/10/2024

Trade name: Vibra-TITE® UV Adhesive

(Contd. of page 2)

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.

- 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 section 13.

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

- 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.

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2024 Reviewed on 01/10/2024

Trade name: Vibra-TITE® UV Adhesive

- 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.

- 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



Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties

Viscous Amber colored Characteristic Not determined.				
Amber colored Characteristic Not determined. ot determined.				
Amber colored Characteristic Not determined. ot determined.				
Amber colored Characteristic Not determined. ot determined.				
Characteristic Not determined. ot determined.				
Not determined. ot determined.				
ot determined.				
Undetermined. ≥ 142 °C (≥ 287.6 °F)				
4 °C (201.2 °F)				
ot applicable.				
Not determined.				
roduct is not selfigniting.				
roduct does not present an explosion hazard.				
Not determined.				
Not determined.				
0.1 hPa				
1.01 g/cm³ (~ 8.42845 lbs/gal)				
Not determined.				
Not determined.				
Not determined.				
Not miscible or difficult to mix.				
- Partition coefficient (n-octanol/water): Not determined.				
1,200 mPas				
Not determined.				
0.00 %				
0.0 g/l / 0.00 lb/gal				
1.8 %				

Printing date 01/23/2024 Reviewed on 01/10/2024

Trade name: Vibra-TITE® UV Adhesive

(Contd. of page 4)

- 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 (Acute Toxicity Estimate)						
Oral	LD50	5,985 mg/kg (rat)				
Dermal	LD50	7,000 mg/kg (rabbit)				
Inhalative	LC50/4 h	275 mg/l				
CAS: 79-10-7 acrylic acid						
Oral	LD50	250 mg/kg (rat)				
Dermal	LD50	280 mg/kg (rabbit)				
Inhalative	LC50/4 h	11 mg/l (ATE)				
CAS: 759	CAS: 75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide					
Oral	LD50	> 5,000 mg/kg (rat)				
CAS: 747	CAS: 7473-98-5 2-hydroxy-2-methylpropiophenone					
Oral	LD50	1,694 mg/kg (rat)				

- Primary irritant effect:
 - on the skin: Strong caustic effect on skin and mucous membranes.
 - on the eye: Strong caustic effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- 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: Very toxic for fish
- Additional ecological information:
 - General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Printing date 01/23/2024 Reviewed on 01/10/2024

Trade name: Vibra-TITE® UV Adhesive

(Contd. of page 5)

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

4 Transport information	1 Transport information				
- UN-Number - DOT, IMDG, IATA	UN3082				
- UN proper shipping name - DOT	Environmentally hazardous substance, liquid, n.o.s. (Acrylic acid, stabilized, isobornyl acrylate)				
- IMDG - IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, isobornyl acrylate), MARINE POLLUTANT				
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, isobornyl acrylate)				
- Transport hazard class(es)					
- DOT, IMDG, IATA					
★ 2					
- Class - Label	9 Miscellaneous dangerous substances and articles9				
- Packing group - DOT, IMDG, IATA	III				
- Environmental hazards:	Product contains environmentally hazardous substances: isobornyl acrylate				
- Marine pollutant:	Yes Symbol (fish and tree)				
- Special marking (IATA):	Symbol (fish and tree)				
 Special precautions for user Hazard identification number (Kemler code): EMS Number: 	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F				
- Segregation groups - Stowage Category	(SGG1) Acids A				
- Transport in bulk according to Annex II of MARPOL73 and the IBC Code	/78 Not applicable.				
- 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				

Printing date 01/23/2024 Reviewed on 01/10/2024

Trade name: Vibra-TITE® UV Adhesive

(Contd. of page 6)

- UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, ISOBORNYL ACRYLATE), 9, III

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: 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:

Trifunctional acid ester

- Chemicals known to cause reproductive toxicity for males:

Trifunctional acid ester

- Chemicals known to cause developmental toxicity:

Trifunctional acid ester

- Carcinogenic categories
 - EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value)

CAS: 79-10-7 acrylic acid

A4

- 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)



<mark>tEALTH ≛3</mark> Health = *3

Fire = 1

- NFPA ratings (scale 0 - 4)



Health = 3Fire = 1 Reactivity = 0

- 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

Printing date 01/23/2024 Reviewed on 01/10/2024

Trade name: Vibra-TITE® UV Adhesive

(Contd. of page 7)

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
REL: Recommended Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Skin Corrosion IA: Skin corrosion/irritation — Category 1A
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
Eye Irritation 2B: Serious eye damage/eye irritation — Category 2B
Sensitization - Skin 1: Skin sensitisation — Category 1
Sensitization - Skin 1: Skin sensitisation — Category 1
Sensitization - Skin 1: Skin sensitisation — 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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