

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

**1 Identification****- Product identifier**

- **Trade name:** Vibra-TITE® UV Adhesives
- **Synonyms:** 255 Light Cure Adhesive
- **Part number:** VT255
- **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

Carcinogenicity 2      H351 Suspected of causing cancer.  
Toxic to Reproduction 2      H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irritation 2      H315 Causes skin irritation.  
Eye Irritation 2A      H319 Causes serious eye irritation.  
Sensitization - Skin 1      H317 May cause an allergic skin reaction.  
Flammable Liquids 4      H227 Combustible liquid.

**- Label elements****- GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).**- Hazard pictograms**

GHS07 GHS08

**- Signal word** Warning**- Hazard-determining components of labeling:**

Urethane acrylate oligomer  
Acrylic polymer  
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide  
Epoxy Diacrylate  
(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate  
Propoxylated neopentyl glycol diacrylate esters

**- Hazard statements**

H227 Combustible liquid.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® UV Adhesives

(Contd. of page 1)

**- Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from flames and hot surfaces. – No smoking.
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.
P302+P352	If on skin: Wash with plenty of water.
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.
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.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
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 Sensitization - Skin 1B, H317; Eye Irritation 2B, H320	40 – 49%
	Epoxy Diacrylate Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1B, H317	10 – 19%
CAS: 616-45-5	Additive Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319	5 – 9%
CAS: 2399-48-6	Tetrahydrofurfuryl acrylate Skin Irritation 2, H315; Eye Irritation 2A, H319	5 – 9%
CAS: 84170-74-1	Propoxylated neopentyl glycol diacrylate esters Skin Irritation 2, H315; Sensitization - Skin 1B, H317; Specific Target Organ Toxicity - Single Exposure 3, H335; Eye Irritation 2B, H320	5 – 9%
CAS: 15625-89-5	Acrylic polymer Carcinogenicity 2, H351; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	1 – 4%
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	1 – 4%
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone Acute Toxicity - Oral 4, H302	1 – 4%
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide Toxic to Reproduction 2, H361; Sensitization - Skin 1, H317	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.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® UV Adhesives

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## \* 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - **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 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: 15625-89-5 Acrylic polymer

WEEL	Long-term value: 1 mg/m <sup>3</sup> Skin
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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.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® UV Adhesives

(Contd. of page 3)

**- 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:** Required use of safety glasses**- Body protection:** Protective work clothing

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties****- General Information****- Appearance:****- Form:**

Liquid

**- Color:**

Clear

**- Odor:**

Characteristic

**- Odor threshold:**

Not determined.

**- pH-value:**

Not determined.

**- Change in condition****- Melting point/Melting range:**

Undetermined.

**- Boiling point/Boiling range:**

≥ 93 °C (≥ 199.4 °F)

**- Flash point:**

93 °C (199.4 °F)

**- Flammability (solid, gaseous):**

Not applicable.

**- Auto igniting:**

240 °C (464 °F)

**- Decomposition temperature:**

Not determined.

**- Ignition temperature:**

Product is not selfigniting.

**- Danger of explosion:**

Not determined.

**- Explosion limits:****- Lower:**

Not determined.

**- Upper:**

Not determined.

**- Vapor pressure:**

Not determined.

**- Density at 20 °C (68 °F):**~ 1.11035 g/cm<sup>3</sup> (~ 9.26587 lbs/gal)**- 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:**

3.0 %

**- VOC content:**

3.00 %

~ 33.3 g/l / ~ 0.28 lb/gal

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® UV Adhesives

(Contd. of page 4)

- <b>Solids content:</b>	11.0 %
- <b>Other information</b>	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:**

- <b>LD/LC50 values that are relevant for classification:</b>	
<b>ATE (Acute Toxicity Estimate)</b>	
Oral LD50	3,494 mg/kg (rat)
<b>CAS: 616-45-5 Additive</b>	
Oral LD50	328 mg/kg (rat)
<b>CAS: 42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate</b>	
Oral LD50	5,000 mg/kg (rat)
<b>CAS: 7473-98-5 2-hydroxy-2-methylpropiophenone</b>	
Oral LD50	1,694 mg/kg (rat)
<b>CAS: 75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide</b>	
Oral LD50	> 5,000 mg/kg (rat)

- **Primary irritant 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**

- <b>IARC (International Agency for Research on Cancer)</b>	
CAS: 15625-89-5	Acrylic polymer <span style="float: right;">2B</span>

- **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.
- **Ecotoxicological effects:**
  - **Remark:** Harmful to fish
- **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.  
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® UV Adhesives

(Contd. of page 5)

- **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

- <b>UN-Number</b> - <b>DOT, IMDG, IATA</b>	UN3082
- <b>UN proper shipping name</b> - <b>DOT</b>  - <b>IMDG</b>  - <b>IATA</b>	Environmentally hazardous substance, liquid, n.o.s. (Tetrahydrofurfuryl acrylate, Tripropylene glycol diacrylate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrahydrofurfuryl acrylate, Tripropylene glycol diacrylate), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrahydrofurfuryl acrylate, Tripropylene glycol diacrylate)
- <b>Transport hazard class(es)</b> - <b>DOT, IMDG, IATA</b>	
	
- <b>Class</b> - <b>Label</b>	9 Miscellaneous dangerous substances and articles 9
- <b>Packing group</b> - <b>DOT, IMDG, IATA</b>	III
- <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: trimethylolpropane triacrylate
- <b>Marine pollutant:</b>	Yes (DOT) Symbol (fish and tree)
- <b>Special marking (IATA):</b>	Symbol (fish and tree)
- <b>Special precautions for user</b> - <b>Hazard identification number (Kemler code):</b> - <b>EMS Number:</b> - <b>Stowage Category</b>	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A
- <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
- <b>Transport/Additional information:</b>	
- <b>DOT</b> - <b>Quantity limitations</b>  - <b>Remarks:</b>	On passenger aircraft/rail: No limit On cargo aircraft only: No limit Special marking with the symbol (fish and tree).
- <b>IMDG</b> - <b>Limited quantities (LQ)</b> - <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRAHYDROFURFURYL ACRYLATE, TRIPROPYLENE GLYCOL DIACRYLATE), 9, III

## \*15 Regulatory information

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

No further relevant information available.

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

Reviewed on 01/23/2024

Trade name: Vibra-TITE® UV Adhesives

(Contd. of page 6)

**- Sara****- Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**- Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**- TSCA (Toxic Substances Control Act):**

Urethane acrylate oligomer	ACTIVE
Additive	ACTIVE
Tetrahydrofurfuryl acrylate	ACTIVE
Propoxylated neopentyl glycol diacrylate esters	ACTIVE
Acrylic polymer	ACTIVE
(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate	ACTIVE
2-hydroxy-2-methylpropiophenone	ACTIVE
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	ACTIVE

**- Hazardous Air Pollutants**

None of the ingredients is listed.

**- Proposition 65****- Chemicals known to cause cancer:**

CAS: 15625-89-5 Acrylic polymer

**- 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)**

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 Affairs**- Contact:** Safety, Health and Environmental Affairs**- Classification System:****- HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

**- NFPA ratings (scale 0 - 4)**

2	1	0	Health = 2
			Fire = 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 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

(Contd. on page 8)

**Safety Data Sheet**  
acc. to OSHA HCS

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Reviewed on 01/23/2024

**Trade name:** Vibra-TITE® UV Adhesives

(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  
Flammable Liquids 4: Flammable liquids – Category 4  
Acute Toxicity - Oral 4: Acute toxicity – Category 4  
Skin Irritation 2: Skin corrosion/irritation – Category 2  
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  
Carcinogenicity 2: Carcinogenicity – Category 2  
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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