

**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:** 291 Acrylic UV / Visible W/ Fluorescence
- **Part number:** VT291
- **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 1B H360 May damage fertility or the unborn child.



GHS05 Corrosion

Eye Damage 1 H318 Causes serious eye damage.



GHS07

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



GHS05 GHS07 GHS08

- **Signal word** Danger

**- Hazard-determining components of labeling:**

N,N-dimethylacrylamide  
 Acrylic Esters  
 Urethane acrylate  
 2-hydroxy-2-methylpropiophenone  
 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide  
 Methacryloxypropyltrimethoxysilane

**- Hazard statements**

H227 Combustible liquid.  
 H302+H312 Harmful if swallowed or in contact with skin.

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- H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H360 May damage fertility or the unborn child.

**- Precautionary statements**

- P201 Obtain special instructions before use.  
 P210 Keep away from flames and hot surfaces. – No smoking.  
 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 protective gloves / protective clothing.  
 P280 Wear eye protection / face protection.  
 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.  
 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).  
 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.  
 P370+P378 In case of fire: Use CO<sub>2</sub>, 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:**

CAS: 5888-33-5	Acrylic Esters Sensitization - Skin 1B, H317	40 – 49%
	Urethane acrylate Toxic to Reproduction 1B, H360; Skin Irritation 2, H315; Eye Irritation 2A, H319	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	20 – 29%
CAS: 26936-30-1	Methacryloxypropyltrimethoxysilane Sensitization - Skin 1B, H317	1 – 4%
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide Toxic to Reproduction 2, H361; Sensitization - Skin 1, H317	1 – 4%
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone Acute Toxicity - Oral 4, H302	1 – 4%

### 4 First-aid measures

**- Description of first aid measures****- General information:**

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. If symptoms persist, consult a doctor.

- **After swallowing:** 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.

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## 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.
- **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:**  
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.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
  - **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
    - **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.  
Store protective clothing separately.  
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.

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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

Goggles recommended during refilling.

**- 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:**

≥ 81 °C (≥ 177.8 °F)

**- Flash point:**

70 °C (158 °F)

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

Not applicable.

**- 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):**~ 1.00082 g/cm<sup>3</sup> (~ 8.35184 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 at 20 °C (68 °F):**

100 mPas

**- Kinematic:**

Not determined.

**- Solvent content:****- VOC content:**

0.00 %

0.0 g/l / 0.00 lb/gal

**- Solids content:**

2.8 %

**- 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.

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- **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	481 mg/kg
Dermal	LD50	1,449 mg/kg

#### CAS: 2680-03-7 N,N-dimethylacrylamide

Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)

#### CAS: 26936-30-1 Methacryloxypropyltrimethoxysilane

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

#### CAS: 75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Oral	LD50	> 5,000 mg/kg (rat)
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#### CAS: 7473-98-5 2-hydroxy-2-methylpropiophenone

Oral	LD50	1,694 mg/kg (rat)
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#### - 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:

Harmful  
Irritant

#### - Carcinogenic categories

##### - IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

##### - 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:** 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.  
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.

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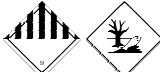
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## 13 Disposal considerations

**- 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, IMDG, IATA	UN3082
- UN proper shipping name - DOT	Environmentally hazardous substance, liquid, n.o.s. (N,N-dimethylacrylamide, isobornyl acrylate)
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-dimethylacrylamide, isobornyl acrylate), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-dimethylacrylamide, isobornyl acrylate)
- Transport hazard class(es) - DOT, IMDG, IATA	
	
- Class - Label	9 Miscellaneous dangerous substances and articles 9
- Packing group - DOT, IMDG, IATA	III
- Environmental hazards:	Product contains environmentally hazardous substances: isobornyl acrylate
- Marine pollutant:	No Yes (DOT) Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
- Special precautions for user	Warning: Miscellaneous dangerous substances and articles
- Hazard identification number (Kemler code):	90
- EMS Number:	F-A,S-F
- Stowage Category	A
- 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: 450 L On cargo aircraft only: 450 L
- Remarks:	Special marking with the symbol (fish and tree).
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	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, ISOBORNYL ACRYLATE), 9, III

## 15 Regulatory information

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

No further relevant information available.

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**- 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):**

Acrylic Esters	ACTIVE
Urethane acrylate	*
N,N-dimethylacrylamide	ACTIVE
Methacryloxypropyltrimethoxysilane	ACTIVE
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	ACTIVE
2-hydroxy-2-methylpropiophenone	ACTIVE
2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)	ACTIVE

**- Hazardous Air Pollutants**

None of the ingredients is listed.

**- 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)**

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	3	Health = *3
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

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

3	2	0	Health = 3
			Fire = 2
			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  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic

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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 3: Acute toxicity – Category 3  
Acute Toxicity - Oral 4: Acute toxicity – Category 4  
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  
Sensitization - Skin 1: Skin sensitisation – Category 1  
Sensitization - Skin 1B: Skin sensitisation – Category 1B  
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B  
Toxic to Reproduction 2: Reproductive toxicity – Category 2

- \* **Data compared to the previous version altered.**

- **Disclaimer**

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