

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

Printing date 03/06/2019

Reviewed on 01/03/2018

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

- **Trade name:** Vibra-TITE® UV Adhesives
- **Synonyms:** 221 UV Curable Structural Paste
- **Part number:** VT221
- **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  
Blue Photon Technology & Workholding Systems LLC  
1002 Industrial Park Drive  
Shelby, MI 49455  
Tel: 1-855-777-2040  
Fax: 1-231-255-9640  
E-mail: info@bluephotongrip.com  
Website: www.bluephotongrip.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

Repr. 1B      H360 May damage fertility or the unborn child.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
Eye Irrit. 2A      H319 Causes serious eye irritation.  
Skin Sens. 1B      H317 May cause an allergic skin reaction.  
STOT SE 3      H336 May cause drowsiness or dizziness.

**- Label elements**

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

**- Hazard pictograms**

GHS07 GHS08

- **Signal word** Danger

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

Urethane acrylate  
Acrylic Esters  
acrylic acid  
2-hydroxyethyl methacrylate  
maleic anhydride  
Photoinitiator

**- Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

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H360 May damage fertility or the unborn child.  
H336 May cause drowsiness or dizziness.

**- Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
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 eye protection / face protection.  
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.  
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.  
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:****- NFPA ratings (scale 0 - 4)****- HMIS-ratings (scale 0 - 4)****- 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<br>Repr. 1B, H360; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336                      | 40 – 49% |
| CAS: 5888-33-5   | Acrylic Esters<br>Skin Sens. 1B, H317   | 30 – 39% |
| CAS: 67762-90-7  | Amorphous Silica<br>Combustible Dust  | 5 – 9%   |
| CAS: 868-77-9    | 2-hydroxyethyl methacrylate<br>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317                         | 5 – 9%   |
| CAS: 79-10-7     | acrylic acid<br>Flam. Liq. 3, H226; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | 1 – 4%   |
| CAS: 7473-98-5   | Photoinitiator<br>Acute Tox. 4, H302  | 1 – 4%   |
| CAS: 108-31-6    | maleic anhydride<br>Resp. Sens. 1, H334; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317                | ≤ 1%     |
| CAS: 162881-26-7 | Photoinitiator<br>Skin Sens. 1, H317  | ≤ 1%     |

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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:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

#### - 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:

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.

## 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 ignition sources away - Do not smoke.

Protect against electrostatic charges.

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 item 7.

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**- Control parameters****- Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

|                                       |  |
|---------------------------------------|--|
| <b>CAS: 79-10-7 acrylic acid</b>      |  |
| REL                                   | Long-term value: 6 mg/m <sup>3</sup> , 2 ppm<br>Skin   |
| TLV                                   | Long-term value: 5.9 mg/m <sup>3</sup> , 2 ppm<br>Skin   |
| <b>CAS: 108-31-6 maleic anhydride</b> |  |
| PEL                                   | Long-term value: 1 mg/m <sup>3</sup> , 0.25 ppm  |
| REL                                   | Long-term value: 1 mg/m <sup>3</sup> , 0.25 ppm  |
| TLV                                   | Long-term value: 0.01* mg/m <sup>3</sup> , 0.0025* ppm<br>DSEN, RSEN;*inhalable fraction + vapor |

- **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.

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

## 9 Physical and chemical properties

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

|                          |                 |
|--------------------------|-----------------|
| - <b>Form:</b>           | Pasty           |
| - <b>Color:</b>          | Whitish         |
| - <b>Odor:</b>           | Characteristic  |
| - <b>Odor threshold:</b> | Not determined. |

- **pH-value at 20 °C (68 °F):** 5

**- Change in condition**

|                                       |                     |
|---------------------------------------|---------------------|
| - <b>Melting point/Melting range:</b> | Undetermined.       |
| - <b>Boiling point/Boiling range:</b> | > 100 °C (> 212 °F) |

- **Flash point:** 97 °C (206.6 °F)

- **Flammability (solid, gaseous):** Not applicable.

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|   |   |
|---|---|
| - <b>Ignition temperature:</b>                    | 374 °C (705.2 °F)                             |
| - <b>Decomposition temperature:</b>               | Not determined.                               |
| - <b>Auto igniting:</b>                           | Product is not selfigniting.                  |
| - <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| - <b>Explosion limits:</b>                        |   |
| - <b>Lower:</b>                                   | Not determined.                               |
| - <b>Upper:</b>                                   | 26.0 Vol %                                    |
| - <b>Vapor pressure at 20 °C (68 °F):</b>         | > 0 hPa (> 0 mm Hg)                           |
| - <b>Density:</b>                                 | Not determined.                               |
| - <b>Relative density</b>                         | Not determined.                               |
| - <b>Vapor density</b>                            | Not determined.                               |
| - <b>Evaporation rate</b>                         | Not determined.                               |
| - <b>Solubility in / Miscibility with</b>         |   |
| - <b>Water:</b>                                   | Not miscible or difficult to mix.             |
| - <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| - <b>Viscosity:</b>                               |   |
| - <b>Dynamic:</b>                                 | Not determined.                               |
| - <b>Kinematic:</b>                               | Not determined.                               |
| - <b>Solvent content:</b>                         |   |
| - <b>VOC content:</b>                             | 0.00 %<br>0.0 g/l / 0.00 lb/gal               |
| - <b>Solids content:</b>                          | 9.6 %   |
| - <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:**

### - LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

|            |          |                      |
|------------|----------|----------------------|
| Oral       | LD50     | 3,568 mg/kg (rat)    |
| Dermal     | LD50     | 6,800 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 102 mg/l             |

#### Urethane acrylate

|        |      |                        |
|--------|------|------------------------|
| Oral   | LD50 | 4,300 mg/kg (rat)      |
| Dermal | LD50 | > 5,000 mg/kg (rabbit) |

#### CAS: 868-77-9 2-hydroxyethyl methacrylate

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 5,050 mg/kg (rat) |
|------|------|-------------------|

#### 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: 7473-98-5 Photoinitiator

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

#### CAS: 108-31-6 maleic anhydride

|      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 400 mg/kg (rat) |
|------|------|-----------------|

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|   |      |                      |  |
|---|------|----------------------|--|
| Dermal  | LD50 | 2,620 mg/kg (rabbit) |  |
| <ul style="list-style-type: none"> <li>- <b>Primary irritant effect:</b> <ul style="list-style-type: none"> <li>- <b>on the skin:</b> Irritant to skin and mucous membranes.</li> <li>- <b>on the eye:</b> Irritating effect.</li> </ul> </li> <li>- <b>Sensitization:</b> Sensitization possible through skin contact.</li> <li>- <b>Additional toxicological information:</b><br/>The product shows the following dangers according to internally approved calculation methods for preparations:<br/>Irritant</li> <li>- <b>Carcinogenic categories</b> <ul style="list-style-type: none"> <li>- <b>IARC (International Agency for Research on Cancer)</b><br/>CAS: 79-10-7 acrylic acid <span style="float: right; border: 1px solid black; padding: 0 2px;">3</span></li> <li>- <b>NTP (National Toxicology Program)</b><br/>None of the ingredients is listed.</li> <li>- <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b><br/>None of the ingredients is listed.</li> </ul> </li> </ul> |      |                      |  |

## 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 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.  
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.

## 14 Transport information

|                                  |  |
|----------------------------------|--|
| - <b>UN-Number</b>               |  |
| - <b>DOT</b>                     | not regulated  |
| - <b>IMDG, IATA</b>              | UN3082   |
| - <b>UN proper shipping name</b> |  |
| - <b>DOT</b>                     | not regulated  |
| - <b>IMDG</b>                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, Isobornyl Acrylate), MARINE POLLUTANT |
| - <b>IATA</b>                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, Isobornyl Acrylate)                   |

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|   |  |
|---|--|
| <b>- Transport hazard class(es)</b>   |  |
| - DOT   |  |
| - Class   | not regulated  |
| <b>- IMDG, IATA</b>   |  |
|  |  |
| - Class   | 9 Miscellaneous dangerous substances and articles  |
| - Label   | 9  |
| <b>- Packing group</b>  |  |
| - DOT   | not regulated  |
| - IMDG, IATA  | III  |
| <b>- Environmental hazards:</b>   |  |
| - Marine pollutant:   | Product contains environmentally hazardous substances: Isobornyl Acrylate<br>No<br>Symbol (fish and tree)          |
| - Special marking (IATA):   | Symbol (fish and tree)   |
| <b>- Special precautions for user</b>   |  |
| - Danger code (Kemler):   | Warning: Miscellaneous dangerous substances and articles<br>90   |
| - EMS Number:   | F-A,S-F  |
| - Segregation groups  | Acids  |
| - Stowage Category  | A  |
| <b>- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> |  |
|   | Not applicable.  |
| <b>- Transport/Additional information:</b>  |  |
| <b>- IMDG</b>   |  |
| - Limited quantities (LQ)   | 5L   |
| - Excepted quantities (EQ)  | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml   |
| <b>- UN "Model Regulation":</b>   |  |
|   | 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**  
- Sara

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

None of the ingredients is listed.

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

CAS: 79-10-7 acrylic acid

CAS: 108-31-6 maleic anhydride

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

Acrylic Esters

Amorphous Silica

2-hydroxyethyl methacrylate

acrylic acid

Photoinitiator

tert-butyl perbenzoate

maleic anhydride

Photoinitiator

**- TSCA new (21st Century Act): (Substances not listed)**

Urethane acrylate

**- Hazardous Air Pollutants**

CAS: 79-10-7 acrylic acid

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CAS: 108-31-6 maleic anhydride

**- 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

A4

CAS: 108-31-6 maleic anhydride

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  
Safety, Health and Environmental Affaires

**- Contact:** Safety, Health and Environmental Affaires**- Date of preparation / last revision** 03/06/2019 / 14**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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  
ACGIH: American Conference of Governmental Industrial Hygienists  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
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  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
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 Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Repr. 1B: Reproductive toxicity – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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