

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

Printing date 06/13/2017

Reviewed on 06/13/2017

**1 Identification****- Product identifier****- Trade name:** Vibra-TITE® Structural Adhesives**- Synonyms:** 240 Fast Fixturing Magnet Bonder**- Part number:** VT240**- 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**

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Eye Irrit. 2B H320 Causes eye irritation.

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

GHS07

**- Signal word** Warning**- Hazard-determining components of labeling:**2-hydroxyethyl methacrylate  
acrylic acid**- Hazard statements**

H315+H320 Causes skin and eye irritation.

H317 May cause an allergic skin reaction.

**- Precautionary statements**P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.  
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.  
P321 Specific treatment (see on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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**- 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:**

868-77-9	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	70-79%
79-10-7	acrylic acid Flam. Liq. 3, H226; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10-19%

### 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.

### 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**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

- **Environmental precautions:** 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 item 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.

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See Section 13 for disposal information.

**- Protective Action Criteria for Chemicals**

<b>- PAC-1:</b>		
868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m <sup>3</sup>
79-10-7	acrylic acid	1.5 ppm
112945-52-5	Silicon dioxide, amorphous	18 mg/m <sup>3</sup>
614-45-9	tert-butyl perbenzoate	8.2 mg/m <sup>3</sup>
<b>- PAC-2:</b>		
868-77-9	2-hydroxyethyl methacrylate	21 mg/m <sup>3</sup>
79-10-7	acrylic acid	46 ppm
112945-52-5	Silicon dioxide, amorphous	100 mg/m <sup>3</sup>
614-45-9	tert-butyl perbenzoate	90 mg/m <sup>3</sup>
<b>- PAC-3:</b>		
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m <sup>3</sup>
79-10-7	acrylic acid	180 ppm
112945-52-5	Silicon dioxide, amorphous	630 mg/m <sup>3</sup>
614-45-9	tert-butyl perbenzoate	200 mg/m <sup>3</sup>

**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 item 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 remaining constituent has no known exposure limits.

**79-10-7 acrylic acid**

REL Long-term value: 6 mg/m<sup>3</sup>, 2 ppm  
Skin

TLV Long-term value: 5.9 mg/m<sup>3</sup>, 2 ppm  
Skin

**- 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:**

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

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**- 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:****- Form:**

Liquid

**- Color:**

Clear

**- Odor:**

Strong

**- Odor threshold:**

Not determined.

**- pH-value at 20 °C (68 °F):**

9

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

Undetermined.

**- Boiling point/Boiling range:**

149 °C (300 °F)

**- Flash point:**

94 °C (201 °F)

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

Not applicable.

**- Ignition temperature:**

374 °C (705 °F)

**- Decomposition temperature:**

Not determined.

**- Auto igniting:**

Product is not selfigniting.

**- Danger of explosion:**

Product does not present an explosion hazard.

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

5.3 Vol %

**- Upper:**

26.0 Vol %

**- Vapor pressure at 20 °C (68 °F):**

4.3 hPa (3 mm Hg)

**- Density at 20 °C (68 °F):**1.08 g/cm<sup>3</sup> (9.013 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:**

0.0 %

**- VOC content:**

0.0 g/l / 0.00 lb/gl

**- Solids content:**

19.5 %

**- Other information**

No further relevant information available.

## 10 Stability and reactivity

**- Reactivity** No further relevant information available.

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**- 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:**

868-77-9 2-hydroxyethyl methacrylate		
Oral	LD50	5050 mg/kg (rat)
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)

**- 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)**

79-10-7	acrylic acid	3
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**- 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.

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

**- 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.

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## 14 Transport information

- <b>UN-Number</b> - DOT, ADN, IMDG, IATA	not regulated
- <b>UN proper shipping name</b> - DOT, ADN, IMDG, IATA	not regulated
- <b>Transport hazard class(es)</b> - DOT, ADN, IMDG, IATA - Class	not regulated
- <b>Packing group</b> - DOT, IMDG, IATA	not regulated
- <b>Environmental hazards:</b>	Not applicable.
- <b>Special precautions for user</b>	Not applicable.
- <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
- <b>UN "Model Regulation":</b>	not regulated

## 15 Regulatory information

- <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> - Sara	
- <b>Section 355 (extremely hazardous substances):</b> None of the ingredients is listed.	
- <b>Section 313 (Specific toxic chemical listings):</b> 79-10-7 acrylic acid	
- <b>TSCA (Toxic Substances Control Act):</b> 2-hydroxyethyl methacrylate acrylic acid tert-butyl perbenzoate	
- <b>Proposition 65</b> - <b>Chemicals known to cause cancer:</b> None of the ingredients is listed.	
- <b>Chemicals known to cause reproductive toxicity for females:</b> None of the ingredients is listed.	
- <b>Chemicals known to cause reproductive toxicity for males:</b> None of the ingredients is listed.	
- <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients is listed.	
- <b>Carcinogenic categories</b> - <b>EPA (Environmental Protection Agency)</b> None of the ingredients is listed.	
- <b>TLV (Threshold Limit Value established by ACGIH)</b> 79-10-7 acrylic acid <span style="float: right;">A4</span>	
- <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> None of the ingredients is listed.	
- <b>Chemical safety assessment:</b> 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

- **Date of preparation / last revision** 06/13/2017 / 4

- **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

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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 Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
Skin Sens. 1: Skin sensitisation – Category 1

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

- **Disclaimer**

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