

**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 06/05/2023

**1 Identification**

**- Product identifier**

- **Trade name:** Vibra-TITE® Structural Adhesive
- **Synonyms:** 816 Hybrid Structural Adhesive
- **Part number:** VT816
- **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 identification**

**- Classification of the substance or mixture**



GHS07

- Skin Irritation - Category 2    H315 Causes skin irritation.
- Eye Irritation - Category 2A    H319 Causes serious eye irritation.
- Skin Sensitizer - Category 1B    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**



GHS07

- **Signal word** Warning
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
P261                    Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264                    Wash thoroughly after handling.  
P272                    Contaminated work clothing should not be allowed out of the workplace.  
P280                    Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
  
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.  
P501                    Dispose of contents/container in accordance with local/regional/national/international regulations.

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## 3 Composition/Information on ingredients

### - Chemical characterization: Mixtures

- **Description:** Mixture of the substances listed below with nonhazardous additions.

### - Dangerous components:

CAS: 1317-65-3	Calcium Carbonate	Skin Irritation - Category 2, H315	45 – 70% w/w
CAS: 13463-67-7	titanium dioxide	Carcinogenicity – Category 2, H351	1 – 5% w/w

## 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:

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.

- **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.

## 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.

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:** None.

- **Specific end use(s)** No further relevant information available.

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## \* 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:**

CAS: 1317-65-3 Calcium Carbonate

EL (Canada)	STEL: 20* mg/m <sup>3</sup> TWA: 10* 3** mg/m <sup>3</sup> *total dust;**respirable fraction
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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 skin.  
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:** 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:**

Pasty

- **Color:**

According to product specification

- **Odor:**

Odorless

- **Odor threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

- **Melting point/Melting range:**

Undetermined.

- **Boiling point/Boiling range:**

≥ 100 °C

- **Flash point:**

> 94 °C

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

Not applicable.

- **Decomposition temperature:**

Not determined.

- **Ignition temperature:**

Product is not selfigniting.

- **Danger of explosion:**

Product does not present an explosion hazard.

- **Explosion limits:**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

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- Vapor pressure at 20 °C:	≤ 23.4 hPa
- Density at 20 °C:	~ 2.2515 g/cm <sup>3</sup>
- Bulk density:	2 kg/m <sup>3</sup>
- 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:	750,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
- VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
- Solids content:	70.0 %
- 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:**

CAS: 13463-67-7 titanium dioxide

Oral	LD50	> 20,000 mg/kg (rat)
Dermal	LD50	> 10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 6.82 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **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)**

CAS: 13463-67-7 titanium dioxide

2B

- **NTP (National Toxicology Program)**

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.

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**- Ecotoxicological effects:****- Remark:** 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.

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/TDG, ADR, ADN, IMDG, IATA</b>	not regulated
<b>- UN proper shipping name</b>	
<b>- DOT/TDG, ADR, ADN, IMDG, IATA</b>	not regulated
<b>- Transport hazard class(es)</b>	
<b>- DOT/TDG, ADR, ADN, IMDG, IATA</b>	
<b>- Class</b>	not regulated
<b>- Packing group</b>	
<b>- DOT/TDG, ADR, IMDG, IATA</b>	not regulated
<b>- Environmental hazards:</b>	
<b>- Marine pollutant:</b>	No
<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****- 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):**

None of the ingredients is listed.

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

All components have the value ACTIVE.

**- Canadian substance listings:****- Canadian Domestic Substances List (DSL)**

CAS: 13463-67-7 titanium dioxide

**- Canadian Non-Domestic Substances List (NDSL)**

CAS: 1317-65-3 Calcium Carbonate

**- Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

**- Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

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- **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	1	Health = 1
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

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

1	0	0	Health = 1
			Fire = 0
			Reactivity = 0

- **Date of the latest revision of the safety data sheet** 01/29/2024

- **Abbreviations and acronyms:**

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  
 vPvB: very Persistent and very Bioaccumulative

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

- **Disclaimer**

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