

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 03/05/2019

1 Identification

- Product identifier

- **Trade name:** Vibra-TITE® Retaining Compound
- **Synonyms:** 541 High Strength - Slip Fit Retaining Compound
- **Part number:** VT541
- **Application of the substance / the mixture**
Assembly adhesive
Retanning agents

- 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

Carc. 2 H351 Suspected of causing cancer.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 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



GHS05 GHS07 GHS08

- **Signal word** Danger

- Hazard-determining components of labeling:

(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate
acrylic acid
methacrylic acid, monoester with propane-1,2-diol
7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate
2'-phenylacetohydrazide

- Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

- Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

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| | |
|----------------|--|
| 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/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. |
| 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. |
| P314 | Get medical advice/attention 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. |
| P342+P311 | If experiencing respiratory symptoms: Call a poison center/doctor. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

- Classification system:**- NFPA ratings (scale 0 - 4)**

| | | | |
|---|---|---|----------------|
| 3 | 1 | 0 | Health = 3 |
| | | | Fire = 1 |
| | | | Reactivity = 0 |

- HMIS-ratings (scale 0 - 4)

| | |
|-----------------|----------------|
| HEALTH 3 | Health = *3 |
| FIRE 1 | Fire = 1 |
| REACTIVITY 0 | Reactivity = 0 |

- 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: 24448-20-2 | (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediy)l bismethacrylate | 30 – 39% |
| | Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317 | |
| CAS: 27813-02-1 | methacrylic acid, monoester with propane-1,2-diol | 20 – 29% |
| | Eye Irrit. 2A, H319; Skin Sens. 1, H317 | |
| CAS: 7779-31-9 | Methacrylate onomer | 10 – 19% |
| | Skin Irrit. 2, H315; Eye Irrit. 2A, H319 | |
| CAS: 72869-86-4 | 7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | 5 – 9% |
| | Skin Sens. 1, H317; Flam. Liq. 4, H227 | |
| CAS: 79-10-7 | acrylic acid | 4.9% |
| | Flam. Liq. 3, H226; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | |
| CAS: 114-83-0 | 2'-phenylacetohydrazide | ≤ 1% |
| | Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 | |
| CAS: 98-82-8 | cumene | ≤ 1% |
| | Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Acute Tox. 4, H302; STOT SE 3, H335 | |

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.

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- **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:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
CO₂, 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:**
Use neutralizing agent.
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.
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 item 7.
- **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.

CAS: 79-10-7 acrylic acid

| | |
|-----|--|
| REL | Long-term value: 6 mg/m ³ , 2 ppm Skin |
| TLV | Long-term value: 5.9 mg/m ³ , 2 ppm Skin |

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| | |
|----------------------------|---|
| CAS: 98-82-8 cumene | |
| PEL | Long-term value: 245 mg/m ³ , 50 ppm Skin |
| REL | Long-term value: 245 mg/m ³ , 50 ppm Skin |
| TLV | Long-term value: (246) NIC-0.5 mg/m ³ , (50) NIC-0.1 ppm NIC-A3 |

- **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:

Not required.
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:

- Form:

Fluid

- Color:

Green

- Odor:

Weak, characteristic

- Odor threshold:

Not determined.

- pH-value:

Not determined.

- Change in condition

- Melting point/Melting range:

Undetermined.

- Boiling point/Boiling range:

≥ 170 °C (≥ 338 °F)

- Flash point:

95 °C (203 °F)

- Flammability (solid, gaseous):

Not applicable.

- Decomposition temperature:

Not determined.

- Auto igniting:

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 (68 °F): | ≤ 0.1 hPa (≤ 0.1 mm Hg) |
| - Density at 20 °C (68 °F): | ~ 1.1 g/cm ³ (~ 9.1795 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): | 1,500 mPas |
| - Kinematic: | Not determined. |
| - Solvent content: | |
| - Organic solvents: | 0.7 % |
| - Water: | 1.0 % |
| - VOC content: | 0.70 % ~ 7.7 g/l / ~ 0.06 lb/gal |
| - Solids content: | 17.7 % |
| - 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:

ATE (Acute Toxicity Estimate)

| | | |
|------------|----------|-------------------|
| Oral | LD50 | 5,102 mg/kg (rat) |
| Dermal | LD50 | 4,774 mg/kg |
| Inhalative | LC50/4 h | 224 mg/l |

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: 114-83-0 2'-phenylacetohydrazide

| | | |
|------|------|-------------------|
| Oral | LD50 | 270 mg/kg (mouse) |
|------|------|-------------------|

CAS: 98-82-8 cumene

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | 1,400 mg/kg (rat) |
| Dermal | LD50 | 12,300 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 24.7 mg/l (mouse) |

- **Primary irritant effect:**

- **on the skin:** 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.

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- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

| | | |
|----------------|--------------|----|
| CAS: 79-10-7 | acrylic acid | 3 |
| CAS: 98-82-8 | cumene | 2B |
| CAS: 91-20-3 | naphthalene | 2B |
| CAS: 1330-20-7 | xylene | 3 |

- NTP (National Toxicology Program)

| | | |
|---------------|--------------------|---|
| CAS: 98-82-8 | cumene | R |
| CAS: 130-15-4 | 1,4-naphthoquinone | R |
| CAS: 91-20-3 | naphthalene | R |

- 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 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.

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

| | |
|-------------------------------------|---|
| - UN-Number | |
| - DOT | not regulated |
| - IMDG, IATA | UN3082 |
| - UN proper shipping name | |
| - DOT | not regulated |
| - IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT |
| - IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| - Transport hazard class(es) | |
| - DOT | |
| - Class | not regulated |

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| | |
|--|---|
| - IMDG, IATA   | |
| - Class - Label | 9 Miscellaneous dangerous substances and articles 9 |
| - Packing group - DOT - IMDG, IATA | not regulated III |
| - Environmental hazards: - Marine pollutant: - Special marking (IATA): | Product contains environmentally hazardous substances: (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate No Symbol (fish and tree) Symbol (fish and tree) |
| - Special precautions for user - Danger code (Kemler): - EMS Number: - Stowage Category | Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A |
| - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| - Transport/Additional information: - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) | 5L 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., 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: 80-15-9 | dimethylbenzyl hydroperoxide |
| CAS: 98-82-8 | cumene |
| CAS: 98-86-2 | acetophenone |
| CAS: 91-20-3 | naphthalene |
| CAS: 1330-20-7 | xylene |

- TSCA (Toxic Substances Control Act):

(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate
methacrylic acid, monoester with propane-1,2-diol
Methacrylate onomer
7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
acrylic acid
dimethylbenzyl hydroperoxide
Saccharin
Methacrylic acid
propane-1,2-diol
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate
2'-phenylacetohydrazide
cumene
2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)

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| |
|--|
| tetrasodium ethylenediaminetetraacetate |
| Distillates (petroleum), hydrotreated light naphthenic |
| Solvent Blue 98 |
| 2-Phenyl-2-propanol |
| acetophenone |
| N-isopropylhydroxylamine |
| 1-hydroxyethane-1,1-diylbis(phosphonic acid) |
| Solvent naphtha (petroleum), heavy arom. |
| 1,4-naphthoquinone |
| naphthalene |
| 2-Propanone, oxime |
| phosphorous acid |
| xylene |
| Deionized water |

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

| | |
|----------------|-------------------------|
| CAS: 7779-31-9 | Methacrylate onomer |
| CAS: 114-83-0 | 2'-phenylacetohydrazide |

- Hazardous Air Pollutants

| | |
|----------------|--------------------|
| CAS: 79-10-7 | acrylic acid |
| CAS: 98-82-8 | cumene |
| CAS: 98-86-2 | acetophenone |
| CAS: 130-15-4 | 1,4-naphthoquinone |
| CAS: 91-20-3 | naphthalene |
| CAS: 1330-20-7 | xylene |

- Proposition 65

- Chemicals known to cause cancer:

| | |
|--------------|-------------|
| CAS: 98-82-8 | cumene |
| CAS: 91-20-3 | naphthalene |

- 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)

| | | |
|----------------|--------------|--------|
| CAS: 98-82-8 | cumene | D, CBD |
| CAS: 98-86-2 | acetophenone | D |
| CAS: 91-20-3 | naphthalene | C, CBD |
| CAS: 1330-20-7 | xylene | I |

- TLV (Threshold Limit Value established by ACGIH)

| | | |
|----------------|--------------|----|
| CAS: 79-10-7 | acrylic acid | A4 |
| CAS: 91-20-3 | naphthalene | A4 |
| CAS: 1330-20-7 | xylene | 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 Affairs

- Contact: Safety, Health and Environmental Affairs

- Date of preparation / last revision 03/06/2019 / 45

- 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
 Flam. Liq. 4: Flammable liquids – Category 4
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1B: Skin sensitisation – Category 1B
 Carc. 2: Carcinogenicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Asp. Tox. 1: Aspiration hazard – Category 1

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

- **Disclaimer**

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