

**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® Gasket Maker

- **Synonyms:** 710 High Temperature Rigid Flange Sealant

- **Part number:** VT710

- **Application of the substance / the mixture**  
Sealing  
Sealant

**- 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

Carcinogenicity 2

H351 Suspected of causing cancer.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

**- Label elements**

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

**- Hazard pictograms**



GHS07 GHS08

- **Signal word** Warning

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

Urethane methacrylate  
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate  
Cumene  
Bisphenol A epoxy Acrylate  
2'-phenylacetohydrazide

**- Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.

**- Precautionary statements**

P201 Obtain special instructions before use.

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|                |  |
|----------------|--|
| P202           | Do not handle until all safety precautions have been read and understood.  |
| P264           | Wash 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.   |
| 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.   |
| 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.                              |

**- 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: 25852-47-5 | 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate<br>Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335   | 30 – 39% |
|                 | Urethane methacrylate<br>Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317  | 10 – 19% |
|                 | Bisphenol A epoxy Acrylate<br>Sensitization - Skin 1, H317   | 9.90%    |
|                 | Acrylic polymer<br>Combustible Dust  | 5 – 9%   |
|                 | Acrylic polymer<br>Combustible Dust  | 5 – 9%   |
| CAS: 80-15-9    | dimethylbenzyl hydroperoxide<br>Self-reactive substances and mixtures - Type F, H242; Organic Peroxides - Type E, H242; Acute Toxicity - Inhalation 3, H331; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227 | ≤ 1%     |
| CAS: 114-83-0   | 2'-phenylacetohydrazide<br>Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335   | ≤ 1%     |
| CAS: 98-82-8    | Cumene<br>Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335   | ≤ 1%     |

### 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.

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **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:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
  - 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:** 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:**  
At this time, the other constituents have no known exposure limits.

|  |   |
|--|---|
| <b>CAS: 80-15-9 dimethylbenzyl hydroperoxide</b> |   |
| WEEL   | Long-term value: 6 mg/m <sup>3</sup> , 1 ppm<br>Skin    |
| <b>CAS: 98-82-8 Cumene</b>                       |   |
| PEL  | Long-term value: 245 mg/m <sup>3</sup> , 50 ppm<br>Skin |
| REL  | Long-term value: 245 mg/m <sup>3</sup> , 50 ppm<br>Skin |
| TLV  | Long-term value: 5 ppm<br>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.

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**- 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.

**- Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

Viscous

**- Color:**

Pink

**- Odor:**

Characteristic

**- Odor threshold:**

Not determined.

**- pH-value:**

Not determined.

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

Undetermined.

**- Boiling point/Boiling range:**

≥ 200 °C (≥ 392 °F)

**- Flash point:**

100 °C (212 °F)

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

Not applicable.

**- Auto igniting:**

n.a. °C

**- 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.

**- Vapor pressure:**

Not determined.

**- Density:**

Not determined.

**- 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):**

100,000 mPas

**- Kinematic:**

Not determined.

**- Solvent content:****- Organic solvents:**

0.7 %

**- Water:**

0.8 %

**- VOC content:**

0.69 %

6.9 g/l / 0.06 lb/gal

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|                            |  |
|----------------------------|--|
| - <b>Solids content:</b>   | 52.0 %                                     |
| - <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)

|            |          |                   |
|------------|----------|-------------------|
| Inhalative | LC50/4 h | 26,190 mg/l (rat) |
|------------|----------|-------------------|

#### CAS: 80-15-9 dimethylbenzyl hydroperoxide

|            |          |                 |
|------------|----------|-----------------|
| Oral       | LD50     | 382 mg/kg (rat) |
| Dermal     | LD50     | 500 mg/kg (rat) |
| Inhalative | LC50/4 h | 220 mg/l (rat)  |

#### 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:** 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:  
Irritant

#### - Carcinogenic categories

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

|                 |                  |    |
|-----------------|------------------|----|
| CAS: 98-82-8    | Cumene           | 2B |
| CAS: 13463-67-7 | titanium dioxide | 2B |
| CAS: 111-76-2   | 2-butoxyethanol  | 3  |

#### - NTP (National Toxicology Program)

|               |                    |   |
|---------------|--------------------|---|
| CAS: 98-82-8  | Cumene             | R |
| CAS: 130-15-4 | 1,4-naphthoquinone | 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.

### - 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.

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**- 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><br>- <b>DOT, IMDG, IATA</b>   | not regulated   |
| - <b>UN proper shipping name</b><br>- <b>DOT, IMDG, IATA</b>                           | not regulated   |
| - <b>Transport hazard class(es)</b><br>- <b>DOT, ADN, IMDG, IATA</b><br>- <b>Class</b> | not regulated   |
| - <b>Packing group</b><br>- <b>DOT, IMDG, IATA</b>                                     | not regulated   |
| - <b>Environmental hazards:</b><br>- <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):**

CAS: 80-15-9 dimethylbenzyl hydroperoxide

CAS: 98-82-8 Cumene

CAS: 98-86-2 acetophenone

CAS: 111-76-2 2-butoxyethanol

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

All components have the value ACTIVE.

**- Hazardous Air Pollutants**

CAS: 98-82-8 Cumene

CAS: 98-86-2 acetophenone

CAS: 130-15-4 1,4-naphthoquinone

**- Proposition 65****- Chemicals known to cause cancer:**

CAS: 98-82-8 Cumene

**- 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.

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### - Carcinogenic categories

#### - EPA (Environmental Protection Agency)

|               |                 |        |
|---------------|-----------------|--------|
| CAS: 98-82-8  | Cumene          | D, CBD |
| CAS: 98-86-2  | acetophenone    | D      |
| CAS: 111-76-2 | 2-butoxyethanol | NL     |

#### - TLV (Threshold Limit Value)

|                 |                  |    |
|-----------------|------------------|----|
| CAS: 13463-67-7 | titanium dioxide | A4 |
| CAS: 111-76-2   | 2-butoxyethanol  | A3 |

#### - NIOSH-Ca (National Institute for Occupational Safety and Health)

|                 |                  |  |
|-----------------|------------------|--|
| CAS: 13463-67-7 | titanium dioxide |  |
|-----------------|------------------|--|

- **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     | 2 | Health = 2     |
| FIRE       | 1 | Fire = 1       |
| REACTIVITY | 0 | Reactivity = 0 |

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

|   |   |   |                |
|---|---|---|----------------|
| 2 | 1 | 0 | Health = 2     |
|   |   |   | Fire = 1       |
|   |   |   | 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

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 3: Flammable liquids – Category 3

Flammable Liquids 4: Flammable liquids – Category 4

Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F

Organic Peroxides - Type E: Organic peroxides – Type E/F

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Skin Corrosion 1B: Skin corrosion/irritation – Category 1B

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

Carcinogenicity 2: Carcinogenicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Aspiration Hazard 1: Aspiration hazard – Category 1

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

### - Disclaimer

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