

**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® Gasket Maker
- **Synonyms:** 732 Flexible Gasket Maker
- **Part number:** VT732
- **Application of the substance / the mixture**
  - Sealing
  - Sealant
  - 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

Carc. 2      H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2    H315 Causes skin irritation.  
Eye Irrit. 2A   H319 Causes serious eye irritation.  
Skin Sens. 1   H317 May cause an allergic skin reaction.  
STOT SE 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  
methacrylic acid, monoester with propane-1,2-diol  
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.  
P202      Do not handle until all safety precautions have been read and understood.  
P261      Avoid breathing dust/fume/gas/mist/vapors/spray

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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)**

	Health = 2 Fire = 1 Reactivity = 0
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**- HMIS-ratings (scale 0 - 4)**

	HEALTH 2 Health = 2 FIRE 1 Fire = 1 REACTIVITY 0 Reactivity = 0
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**- 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 methacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	20 – 29%
CAS: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	20 – 29%
	Urethane acrylate Oligomer Skin Irrit. 2, H315; Eye Irrit. 2B, H320	20 – 29%
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol Eye Irrit. 2A, H319; Skin Sens. 1, H317	10 – 19%
CAS: 67762-90-7	Amorphous Silica Combustible Dust	5 – 9%
CAS: 114-83-0	2'-phenylacetohydrazide Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	≤ 1%
CAS: 98-82-8	cumene Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Acute Tox. 4, H302; STOT SE 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:**  
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:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

### CAS: 98-82-8 cumene

PEL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm Skin
REL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm Skin
TLV	Long-term value: (246) NIC-0.5 mg/m <sup>3</sup> , (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.

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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

**- 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:**

Highly viscous

**- Color:**

Violet

**- 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:**

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.

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

≤ 0.1 hPa (≤ 0.1 mm Hg)

**- 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):**

250,000 mPas

**- Kinematic:**

Not determined.

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- **Solvent content:**
- **Organic solvents:** 0.5 %
- **Water:** 1.3 %
- **VOC content:** 0.49 %  
4.9 g/l / 0.04 lb/gal

- **Solids content:** 37.7 %
- **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	27,234 mg/kg (rat)
Dermal	LD50	55,630 mg/kg (rat)

### CAS: 114-83-0 2'-phenylacetohydrazide

Oral	LD50	270 mg/kg (mouse)
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### 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
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- **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> - 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> - Marine pollutant:	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**

- 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

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

Urethane methacrylate

2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate

methacrylic acid, monoester with propane-1,2-diol

Amorphous Silica

Tetraethylene glycol hexoate

Saccharin

dimethylbenzyl hydroperoxide

propane-1,2-diol

2'-phenylacetohydrazide

cumene

Colorant

2-Phenyl-2-propanol

N-isopropylhydroxylamine

tetrasodium ethylenediaminetetraacetate

1-hydroxyethane-1,1-diylbis(phosphonic acid)

Colorant

1,4-naphthoquinone

2-Propanone, oxime

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phosphorous acid	
Deionized water	
<b>- TSCA new (21st Century Act): (Substances not listed)</b>	
CAS: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate
	Urethane acrylate Oligomer
CAS: 114-83-0	2'-phenylacetohydrazide
<b>- Hazardous Air Pollutants</b>	
CAS: 98-82-8	cumene
CAS: 130-15-4	1,4-naphthoquinone
<b>- Proposition 65</b>	
<b>- Chemicals known to cause cancer:</b>	
CAS: 98-82-8	cumene
<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>	
CAS: 98-82-8	cumene
	D, CBD
<b>- TLV (Threshold Limit Value established by ACGIH)</b>	
None of the ingredients is listed.	
<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** 03/06/2019 / 24

- **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 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

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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