



Printing date 03/06/2019 Reviewed on 03/05/2019

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Retaining Compound

- Synonyms: 546 Impact Resistant Retaining Compound

- Part number: VT546

- Application of the substance / the mixture

Retanning agents Assembly adhesive

- 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.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



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:

Urethane methacrylate acrylic acid dimethylbenzyl hydroperoxide methacrylic acid, monoester with propane-1,2-diol 2'-phenylacetohydrazide maleic acid

Methacryloxypropyltrimethoxysilane

- Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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H373 May cause damage to organs through prolonged or repeated exposure.

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- Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P260 Do not breathe dusts or mists.
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.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P310 Immediately call a poison center/doctor.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

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 = 3 Fire = 1 Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = *3 Fire = 1 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:		
	Urethane methacrylate	50 - 59%	
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317		
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol	20 – 29%	
	Eye Irrit. 2A, H319; Skin Sens. 1, H317		
CAS: 79-10-7	acrylic acid	5 – 9%	
	Flam. Liq. 3, H226; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332		
CAS: 20882-04-6	Butanedioic acid	5 – 9%	
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319		
CAS: 80-15-9	dimethylbenzyl hydroperoxide	1 – 4%	
	Self-react. F, H242; Org. Perox. E, H242; Acute Tox. 3, H311; STOT RE 2, H373; Asp. Tox. 1, H304; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335; Flam. Liq. 4, H227		
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: 110-16-7	maleic acid	≤ 1%	
	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335		
CAS: 26936-30-1	Methacryloxypropyltrimethoxysilane	≤ 1%	
	Eye Irrit. 2A, H319; Skin Sens. 1, H317		
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		

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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:

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: 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.

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- 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:	CAS: 79-10-7 acrylic acid			
REL	Long-term value: 6 mg/m³, 2 ppm Skin			
TLV	Long-term value: 5.9 mg/m³, 2 ppm Skin			
CAS:	80-15-9 dimethylbenzyl hydroperoxide			
WEEL	Long-term value: 6 mg/m³, 1 ppm Skin			
CAS:	98-82-8 cumene			
PEL	Long-term value: 245 mg/m³, 50 ppm Skin			
REL	Long-term value: 245 mg/m³, 50 ppm Skin			
TLV	Long-term value: (246) NIC-0.5 mg/m³, (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, characteristicOdor threshold: Not determined.

- **pH-value:** Not determined.

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 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. ≥ 141 °C (≥ 285.8 °F)
- Flash point:	94 °C (201.2 °F)
- Flammability (solid, gaseous):	Not applicable.
- Ignition temperature:	374 °C (705.2 °F)
- Decomposition temperature:	Not determined.
- Auto igniting:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Explosion limits: - Lower: - Upper:	Not determined. Not determined.
- Vapor pressure at 20 °C (68 °F):	≤ 0.1 hPa (≤ 0.1 mm Hg)
- Density at 20°C (68°F): - Relative density - Vapor density - Evaporation rate	~ 1.01 g/cm³ (~ 8.42845 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/w	ater): Not determined.
- Viscosity: - Dynamic at 20°C (68°F): - Kinematic:	2,200 mPas Not determined.
- Solvent content: - Organic solvents: - Water: - VOC content:	0.7 % 0.1 % 0.68 % ~ 6.8 g/l / ~ 0.06 lb/gal
- Solids content: - Other information	1.1 % 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	3,338 mg/kg (rat)	
Dermal	LD50	4,034 mg/kg	
Inhalative	LC50/4 h	181 mg/l	
CAS: 79-1	0-7 acrylic	c acid	
Oral	LD50	250 mg/kg (rat)	
Dermal	LD50	280 mg/kg (rabbit)	
Inhalative	LC50/4 h	11 mg/l (ATE)	
CAS: 80-1	5-9 dimet	hylbenzyl hydroperoxide	
Oral	LD50	382 mg/kg (rat)	

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Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)
CAS: 114-	83-0 2'-ph	enylacetohydrazide
Oral	LD50	270 mg/kg (mouse)
CAS: 110-	16-7 male	ic acid
Oral	LD50	708 mg/kg (rat)
Dermal	LD50	1,560 mg/kg (rabbit)
CAS: 2693	36-30-1 Me	ethacryloxypropyltrimethoxysilane
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
CAS: 98-8	2-8 cume	ne
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

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Carcinogenic categories

Ouron	ogeme categories	
- IAF	RC (International Agency for Research on Cancer)	
CAS: 79-10-7	acrylic acid	3
CAS: 98-82-8	cumene	28
CAS: 91-20-3	naphthalene	28
CAS: 1330-20-7	xylene	3
- NT	P (National Toxicology Program)	
CAS: 98-82-8	cumene	F
CAS: 130-15-4	1,4-naphthoquinone	F
CAS: 91-20-3	naphthalene	F
- OS	HA-Ca (Occupational Safety & Health Administration)	
None of the ingi	redients 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		
- UN-Number - DOT, ADN, IMDG, IATA	not regulated	
- UN proper shipping name - DOT, ADN, IMDG, IATA	not regulated	
- Transport hazard class(es)		
- DOT, ADN, IMDG, IATA - Class	not regulated	
- Packing group - DOT, IMDG, IATA	not regulated	
- Environmental hazards: - Marine pollutant:	No	
- Special precautions for user	Not applicable.	
- Transport in bulk according to Annex II of II and the IBC Code	MARPOL73/78 Not applicable.	
- UN "Model Regulation":	not regulated	

*15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture - Sara

None of the ingredients is listed. - Section 313 (Specific toxic chemical listings): CAS: 79-10-7 acrylic acid dimethylbenzyl hydroperoxide CAS: 80-15-9 cumene CAS: 98-82-8 cumene CAS: 3130-20-7 xylene - TSCA (Toxic Substances Control Act): Urethane methacrylide monoester with propane-1,2-diol acrylic acid monoester with propane-1,2-diol acrylic acid Butanedioic acid Saccharin dimethylbenzyl hydroperoxide propane-1,2-diol 2'-phenylacetohydrazide maleic acid 2(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Methacryloxypropyltrimethoxysilane cumene 2-Phenyl-2-propanol tetrasodium ethylenediaminetetraacetate Distillates (petroleum), hydrotreated light naphthenic Solvent Blue 98	
CAS: 79-10-7 acrylic acid CAS: 80-15-9 dimethylbenzyl hydroperoxide CAS: 98-82-8 cumene CAS: 91-20-3 naphthalene CAS: 1330-20-7 xylene - TSCA (Toxic Substances Control Act): Urethane methacrylate methacrylic acid, monoester with propane-1,2-diol acrylic acid Butanedioic acid Saccharin dimethylbenzyl hydroperoxide propane-1,2-diol 2'-phenylacetohydrazide maleic acid 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Methacryloxyprropyltrimethoxysilane cumene 2-Phenyl-2-propanol tetrasodium ethylenediaminetetraacetate Distillates (petroleum), hydrotreated light naphthenic Solvent Blue 98	
CAS: 80-15-9 dimethylbenzyl hydroperoxide CAS: 98-82-8 cumene CAS: 91-20-3 naphthalene CAS: 1330-20-7 xylene - TSCA (Toxic Substances Control Act): Urethane methacrylate methacrylic acid, monoester with propane-1,2-diol acrylic acid Saccharin dimethylbenzyl hydroperoxide propane-1,2-diol 2'-phenylacetohydrazide maleic acid 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Methacryloxypropyltrimethoxysilane cumene 2-Phenyl-2-propanol tetrasodium ethylenediaminetetraacetate Distillates (petroleum), hydrotreated light naphthenic Solvent Blue 98	
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CAS: 1330-20-7 xylene - TSCA (Toxic Substances Control Act): Urethane methacrylate methacrylic acid, monoester with propane-1,2-diol acrylic acid Butanedioic acid Saccharin dimethylbenzyl hydroperoxide propane-1,2-diol 2'-phenylacetohydrazide maleic acid 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate Methacryloxypropyltrimethoxysilane cumene 2-Phenyl-2-propanol tetrasodium ethylenediaminetetraacetate Distillates (petroleum), hydrotreated light naphthenic Solvent Blue 98	
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Distillates (petroleum), hydrotreated light naphthenic Solvent Blue 98	
Solvent Blue 98	
1-hydroxyethane-1,1-diylbis(phosphonic acid)	
Solvent naphtha (petroleum), heavy arom.	
1,4-naphthoquinone	
Colorant	
naphthalene	
phosphorous acid	
xylene	
Deionized water	

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- TSC	- TSCA new (21st Century Act): (Substances not listed)			
CAS: 20882-04-6	Butanedioic acid			
CAS: 114-83-0	2'-phenylacetohydrazide			
- Haza	ardous Air Pollutants			
CAS: 79-10-7	acrylic acid			
CAS: 98-82-8	cumene			
CAS: 130-15-4	1,4-naphthoquinone			
CAS: 91-20-3	naphthalene			
CAS: 1330-20-7	xylene			

- Proposition 65

1 reposition of
- 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:
CAS: 26936-30-1 Methacryloxypropyltrimethoxysilane

- Carcinogenic categories

Carcini	ogenic categories	
- EPA	A (Environmental Protection Agency)	
CAS: 98-82-8	cumene	D, CBD
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
- NIO	SH-Ca (National Institute for Occupational Safety and Health)	
None of the ingre	edients 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 Affaires
- Contact: Safety, Health and Environmental Affaires
 - Date of preparation / last revision 03/06/2019 / 19
 - 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

PNT: Persistent, Bloacemulative WPVB: 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
Self-react. F: Self-reactive substances and mixtures – Type E/F
Org. Perox. E: Organic peroxides – Type E/F

Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
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

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Trade name: Vibra-TITE® Retaining Compound

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Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1

- * Data compared to the previous version altered.

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