01/26/2024	Kit Components
Product code	Description
VTPB405	Vibra-TITE® Methacrylate Adhesives PB405 MMA - All Purpose - Extremely Fast Set
Components:	
VTPB405A	Vibra-TITE® Methacrylate Adhesives
VTPB405B	Vibra-TITE® Methacrylate Adhesives





Safety Data Sheet

acc. to OSHA HCS

Printing date 01/26/2024

Reviewed on 01/26/2024

Page 1/9

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB 405 All Purpose Extremely Fast Set Part A
 - **Part number:** VTPB405A
 - 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(s) identification

- Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS08 Health hazard Carcinogenicity 2 H351 Suspected of causing cancer. Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS05 Corrosion Skin Corrosion 1A H314 Causes severe skin burns and eye damage. Eye Damage 1 H318 Causes serious eye damage. GHS07 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 GHS02 GHS05 GHS07 GHS08 - Signal word Danger

- *Hazard-determining components of labeling:* methyl methacrylate Methacrylic acid glass microfibres of representative composition N,N-dimethyl-p-toluidine Rosin Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

Reviewed on 01/26/2024

		(Contd. of page 1)
Monofunctional ac		
- Hazard stateme		
	nable liquid and vapor.	
	ere skin burns and eye damage.	
	an allergic skin reaction.	
H351 Suspected of		
	respiratory irritation.	
,	damage to organs through prolonged or repeated exposure.	
- Precautionary		
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P233	Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	
P242	Use only non-sparking tools.	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.	
P260	Do not breathe dusts or mists.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P280	Wear protective gloves.	
P280	Wear eye protection / face protection.	
	B 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	B 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.	
P321	Specific treatment (see on this label).	
P312	Call a poison center/doctor if you feel unwell.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P403+P235	Store in a well-ventilated place. Keep cool.	
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.

CAS: 80-62-6	methyl methacrylate	60 - 69%
	Flammable Liquids 2, H225; Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 79-41-4	Methacrylic acid	5 – 9%
	Acute Toxicity - Dermal 3, H311; Skin Corrosion 1A, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	
	glass microfibres of representative composition Carcinogenicity 2, H351	1 – 4%
CAS: 99-97-8	N,N-dimethyl-p-toluidine	1 – 4%
	Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Flammable Liquids 4, H227	
CAS: 8050-09-7	Rosin	≤ 1%
	Sensitization - Skin 1, H317	-
	Monofunctional acid ester	≤ 1%
	Acute Toxicity - Dermal 3, H311; Skin Corrosion 1C, H314; Eye Damage 1, H318; Sensitization - Skin 1, H317	

4 First-aid measures

- Description of first aid measures

- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:

Supply fresh air and to be sure call for a doctor.

Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 2)

Reviewed on 01/26/2024

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:

Immediately call a doctor.

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, 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:

Mouth respiratory protective device.

- 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 Keep away from ignition sources Wear protective clothing. **Environmental precautions:** Do not allow to enter sewer

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 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 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.

- CAS: 80-62-6 methyl methacrylate
- PEL Long-term value: 410 mg/m³, 100 ppm

Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

	(Contd. of page
REL	Long-term value: 410 mg/m³, 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4
CAS: 7	9-41-4 Methacrylic acid
REL	Long-term value: 70 mg/m³, 20 ppm Skin
TLV	Long-term value: 20 ppm
CAS: 9	9-97-8 N,N-dimethyl-p-toluidine
WEEL	Long-term value: 0.5 ppm
CAS: 8	050-09-7 Rosin
TLV	Long-term value: 0.001* mg/m³ *inhalable fraction, DSEN, RSEN
•	• Additional information: The lists that were valid during the creation were used as basis

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:

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:



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

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 che - General Information	nical properties
- Appearance:	
- Form:	Viscous
- Color:	Cream colored
- Odor:	Pungent
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Undetermined. ≥ 101 °C (≥ 213.8 °F)
- Flash point:	10 °C (50 °F)
- Flammability (solid, gaseous):	Highly flammable.
- Auto igniting:	430 °C (806 °F)

(Contd. on page 5)

Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

Reviewed on 01/26/2024

	(Contd. of pa
- Decomposition temperature:	Not determined.
- Ignition temperature:	Product is not selfigniting.
- Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- Explosion limits:	
- Lower:	2.1 Vol %
- Upper:	12.5 Vol %
- Vapor pressure at 20 °C (68 °F):	≤ 47 hPa (≤ 35.3 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/wat	ter): Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
 Organic solvents: 	0.1 %
- Water:	0.0 %
 VOC content: 	0.12 %
	1.2 g/l / 0.01 lb/gal
- Solids content:	22.5 %
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:

- <i>LL</i>	D/LC50 v	alues that are relevant for classification:
ATE (Acut	te Toxicity	r Estimate)
Oral	LD50	4,912 mg/kg
Dermal	LD50	5,013 mg/kg
Inhalative	LC50/4 h	87 mg/l
CAS: 80-6	2-6 methy	/I methacrylate
Oral	LD50	7,872 mg/kg (rat)
CAS: 79-4	1-4 Metha	crylic acid
Oral	LD50	1,332 mg/kg (mouse)
Dermal	LD50	500 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
CAS: 99-9	7-8 N,N-d	imethyl-p-toluidine
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)

(Contd. on page 6)

Printing date 01/26/2024

Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

Dermal LD50	acid ester	(Contd. of page
	300 mg/kg (ATE)	
- Primarv	irritant effect:	
	ne skin: Caustic effect on skin and muc	ous membranes.
- on th	e eye: Strong caustic effect.	
	ation: Sensitization possible through sl	kin contact.
	toxicological information:	
	hows the following dangers according to	internally approved calculation methods for preparations:
Harmful Corrosive		
Irritant		
Swallowing w	ill lead to a strong caustic effect on mout	th and throat and to the danger of perforation of esophagus and stomach.
- Carcino	genic categories	
- IARC	C (International Agency for Resear	rch on Cancer)
CAS: 80-62-6	methyl methacrylate	3
CAS: 9010-98-4	Neoprene rubber	3
CAS: 99-97-8	N,N-dimethyl-p-toluidine	28
CAS: 14807-96-6		3
	(National Toxicology Program)	
	,4-naphthoquinone	F
	· • •	
- OSH	A-Ca (Occupational Safety & Heal	Ith Administration)
None of the ingre	dients is listed.	
- Behavior in en - Bioaccumu - Mobility in	nd degradability No further relevant in vironmental systems: lative potential No further relevant inf soil No further relevant information avai logical information:	formation available.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow to Must not read - Results of PBT - PBT: Not ap - vPvB: Not a 	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information	formation available. formation available. lable. Irdous for water to reach ground water, water course or sewage system. uted or unneutralized.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow u Must not reac - Results of PBT - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con 	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations	formation available. formation available. lable. Irdous for water to reach ground water, water course or sewage system. uted or unneutralized.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow to Must not read - Results of PBT - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con - Waste treatme 	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations nt methods	formation available. formation available. lable. Irdous for water to reach ground water, water course or sewage system. uted or unneutralized.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow u Must not reac - Results of PBT - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con - Waste treatme - Recommen - Uncleaned page 	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations nt methods dation: Must not be disposed of togeth	formation available. formation available. lable. rrdous for water to reach ground water, water course or sewage system. uted or unneutralized. available. er with household garbage. Do not allow product to reach sewage system.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow u Must not read - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con - Recomment - Recom	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations Int methods dation: Must not be disposed of together ckagings: dation: Disposal must be made accord	formation available. formation available. lable. rrdous for water to reach ground water, water course or sewage system. uted or unneutralized. available. er with household garbage. Do not allow product to reach sewage system.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow u Must not read - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con - Recomment - Recom	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations Int methods dation: Must not be disposed of together ckagings: dation: Disposal must be made accord	formation available. formation available. lable. rrdous for water to reach ground water, water course or sewage system. uted or unneutralized. available. er with household garbage. Do not allow product to reach sewage system.
 Behavior in en Bioaccumu Mobility in Additional eco General no Water hazard Do not allow to Must not read Results of PBT PBT: Not ap VPVB: Not a Other adverse Disposal con Waste treatme Recomment Uncleaned page Accomment 4 Transport inf 	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil T and vPvB assessment plicable. pplicable. effects No further relevant information siderations nt methods dation: Must not be disposed of together ekagings: dation: Disposal must be made accord ormation	formation available. formation available. lable. rrdous for water to reach ground water, water course or sewage system. uted or unneutralized. available. er with household garbage. Do not allow product to reach sewage system.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow u Must not reac - Results of PBT - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con - Waste treatme - Recomment - Uncleaned pao - Recomment 4 Transport inf - UN-Number - DOT, IMDG 	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations nt methods dation: Must not be disposed of together ckagings: dation: Disposal must be made accord ormation	formation available. formation available. lable. rrdous for water to reach ground water, water course or sewage system. uted or unneutralized. available. er with household garbage. Do not allow product to reach sewage system. ling to official regulations.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow u Must not reac - Results of PBT - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con - Waste treatme - Recomment - Uncleaned pac - Recomment 4 Transport inf - UN-Number - DOT, IMDG - UN proper ship - Bioaccumula - Bioaccumula - UN proper ship - Bioaccumula - Bioaccumula - Bioaccumula - Bioaccumula - Bioaccumula - Not a - Recomment - DOT, IMDG - UN proper ship - Waste the ship - Bioaccumula - Bioacumula - Bioacumu	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations nt methods dation: Must not be disposed of together ckagings: dation: Disposal must be made accord ormation	formation available. formation available. lable. rrdous for water to reach ground water, water course or sewage system. uted or unneutralized. available. er with household garbage. Do not allow product to reach sewage system. ling to official regulations.
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow u Must not reac - Results of PBT - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con - Waste treatme - Recomment - Recomment 4 Transport inf - UN-Number - DOT, IMDG 	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations nt methods dation: Must not be disposed of together ckagings: dation: Disposal must be made accord ormation	formation available. formation available. lable. rrdous for water to reach ground water, water course or sewage system. uted or unneutralized. available. er with household garbage. Do not allow product to reach sewage system. ling to official regulations. UN2924 Flammable liquids, corrosive, n.o.s. (Methyl methacrylate
 Behavior in en - Bioaccumu - Mobility in - Additional eco - General no Water hazard Do not allow u Must not reac - Results of PBT - PBT: Not ap - vPvB: Not a - Other adverse 3 Disposal con - Waste treatme - Recomment - Uncleaned pac - Recomment 4 Transport inf - UN-Number - DOT, IMDG - UN proper ship - Bioaccumula - Bioaccumula - UN proper ship - Bioaccumula - Bioaccumula - Bioaccumula - Bioaccumula - Bioaccumula - Not a - Recomment - DOT, IMDG - UN proper ship - Waste the ship - Bioaccumula - Bioacumula - Bioacumu	vironmental systems: lative potential No further relevant information availogical information: tes: class 1 (Self-assessment): slightly haza undiluted product or large quantities of it h bodies of water or drainage ditch undil r and vPvB assessment plicable. pplicable. effects No further relevant information siderations nt methods dation: Must not be disposed of together ckagings: dation: Disposal must be made accord ormation , IATA pping name	formation available. formation available. lable. rrdous for water to reach ground water, water course or sewage system. uted or unneutralized. available. er with household garbage. Do not allow product to reach sewage system. ling to official regulations.

Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

Reviewed on 01/26/2024

- DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids - Hazard identification number (Kemler code): 338 - EMS Number: F-E,S-C - Segregation groups (SGG1) Acids - Stowage Category B - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - DOT - Quantity limitations - IMDG On passenger aircraft/rail: 1 L - IMDG 1L - Excepted quantities (LQ) 1L - Excepted quantities (EQ) 1L - Excepted quantities (EQ) 1L	-DOT -DOT -Class -Label -IMDG -Class -Class -Label -IATA -IATA -Class -Label -IATA -Class -Label -IATA	3, 8 3 Flammable liquids
Class Label Segregation groups Stowage Code Stowage C	- Class - Label - IMDG - Class - Label - IATA - Class - Label - IATA 	3, 8 3 Flammable liquids
· Label 3, 8 · IMDG • • • • • • • • • • • • • • • • • • •	- Label - IMDG - Class - Class - Label - IATA - IATA - Class - Class	3, 8 3 Flammable liquids
- Label 3, 8 - IMDG	- Label - IMDG - Class - Class - Label - IATA - IATA - Class - Class - Class	3, 8 3 Flammable liquids
- IMDG	- IMDG · Class - Class - Label - IATA · Class - Class	3 Flammable liquids
Class Label Step 2 Class Label Step 2 Class Label Step 2 Class Class Label Step 2 Class Class	- Class - Label - IATA V V V - Class	
- Label 3/8 - IATA 3/8 - Class 3 Flammable liquids - Label 3 (8) Packing group 1 - DOT, IMDG, IATA 1 Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids - Hazard identification number (Kemler code): 338 - EMS Number: F-E,S-C - Segregation groups (SGG1) Acids - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 Not applicable. Transport/Additional information: - DOT - DOT Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L - IMDG - I.Limited quantities (LQ) 1L - Excepted quantities (EQ) 1L - Code: E2 Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 500 ml Maximum net quantity per outer p	- Label - IATA • Class	
- Label 3/8 - IATA 3/8 • IATA • • • • • • • • • • • • • • • • • • •	- Label - IATA - Class	
-IATA	- IATA	3/8
	- Class	
- Label 3 (8) Packing group . DOT, IMDG, IATA - DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids - Hazard identification number (Kemler code): 338 - EMS Number: F-E,S-C - Segregation groups (SGG1) Acids - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - DOT On passenger aircraft/rail: 1 L - MDG 1L - Limited quantities (LQ) 1L - Excepted quantities (EQ) 1L - Wodel Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METI		
- Label 3 (8) Packing group - DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - EMS Number: - Segregation groups - Stowage Code - Stowage Code Warning: Flammable liquids - Stowage Code - Segregation groups - Stowage Code (SGG1) Acids B - Stowage Code B - SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - DOT - Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METI		
Packing group - DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user - Hazard identification number (Kemler code): - Hazard identification number (Kemler code): - Segregation groups 338 - EMS Number: - EMS Number: - Stowage Category - Stowage Code F-E,S-C - Segregation groups (SGG1) Acids - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - DOT - Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METI	- Label	3 Flammable liquids
- DOT, IMDĠ, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids - Hazard identification number (Kemler code): 338 - EMS Number: F-E,S-C - Segregation groups (SGG1) Acids - Stowage Category B - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - - DOT Quantity limitations - IMDG 1L - Limited quantities (LQ) 1L - Excepted quantities (EQ) 1L - Excepted quantities (EQ) 1L - Excepted quantities (EQ) 1L - Waximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METI		3 (8)
Special precautions for user Warning: Flammable liquids - Hazard identification number (Kemler code): 338 - EMS Number: F-E,S-C - Segregation groups (SGG1) Acids - Stowage Category B - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L - IMDG 1L - Excepted quantities (LQ) 1L - Excepted quantities (EQ) 1L - Excepted quantities (EQ) 1L Orde: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHER STREE)		II
- Hazard identification number (Kemler code): 338 - EMS Number: F-E,S-C - Segregation groups (SGG1) Acids - Stowage Category B - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 B and the IBC Code Not applicable. Transport/Additional information: - - Quantity limitations On passenger aircraft/rail: 1 L - IMDG - - Limited quantities (LQ) 1L - Excepted quantities (EQ) 1L - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (MET)	Environmental hazards:	Not applicable.
- EMS Number: F-E,S-C - Segregation groups (SGG1) Acids - Stowage Category B - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - DOT - Quantity limitations On passenger aircraft/rail: 1 L - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 1L - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHERED		-
- Stowage Category B - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - - DOT - Quantity limitations - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 1L - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHERED		
- Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - - DOT - Quantity limitations - Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L - IMDG 1L - Limited quantities (LQ) 1L - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHER		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: - - DOT - Quantity limitations - Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L - IMDG 1L - Excepted quantities (LQ) 1L - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHER		-
and the IBC Code Not applicable. Transport/Additional information: . - DOT On passenger aircraft/rail: 1 L - Quantity limitations On passenger aircraft/rail: 1 L - IMDG IL - Limited quantities (LQ) 1L - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METH)		
Transport/Additional information: - DOT - Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation":		
 DOT Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L IMDG Limited quantities (LQ) Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHING) 		
- Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L - IMDG 1L - Limited quantities (LQ) 1L - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METH)		
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ) UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHING)		
- Limited quantities (LQ) - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METI	- IMDG	
- Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METI		1L
Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METI		Code: E2
UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (MET		
ACID, STABILIZED, METHACKTLI ACID, STABILIZED, 3 (8), II		LIN 2924 ELAMMABLE LIQUID CORROSIVE N.O.S. (METHYL

⁻ Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

- Sara

- Se	ection 355 (extremely hazardous substances):		
None of the ing	None of the ingredients is listed.		
- Se	ection 313 (Specific toxic chemical listings):		
CAS: 80-62-6	methyl methacrylate		
	Monofunctional acid ester		
- TSCA	(Toxic Substances Control Act):		
methyl methac	rylate	ACTIVE	
	(Cont	d on nade 8)	

Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

Naannan a web an	(Contd. of page
Neoprene rubber Impact modifying resin	ACTIVE
Methacrylic acid	ACTIVE
•	ACTIVE
N,N-dimethyl-p-toluidine Wax	ACTIVE
Rosin	ACTIVE
Monofunctional acid ester	ACTIVE
propane-1,2-diol	ACTIVE
Soapstone	ACTIVE
1,4-naphthoquinone	ACTIVE
Polymerization inhibitor	ACTIVE
Deionized water	ACTIVE
tetrasodium ethylenediaminetetraacetate	ACTIVE
- Hazardous Air Pollutants	,
CAS: 80-62-6 methyl methacrylate	
CAS: 130-15-4 1,4-naphthoquinone	
- Proposition 65	
- Chemicals known to cause cancer:	
Impact modifying resin	
CAS: 99-97-8 N,N-dimethyl-p-toluidine	
- Chemicals known to cause reproductive toxicity for females:	
Impact modifying resin	
Monofunctional acid ester	
- Chemicals known to cause reproductive toxicity for males:	
Impact modifying resin	
Monofunctional acid ester	
- Chemicals known to cause developmental toxicity:	
Monofunctional acid ester	
- Carcinogenic categories	
- EPA (Environmental Protection Agency)	
CAS: 80-62-6 methyl methacrylate	E, NI
- TLV (Threshold Limit Value)	
CAS: 80-62-6 methyl methacrylate	A
CAS: 14807-96-6 Soapstone	A
- NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

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
- Classification System:
 - HMIS-ratings (scale 0 4)



- NFPA ratings (scale 0 - 4)



- Date of preparation / last revision 01/26/2024 - 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 Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 8)

Reviewed on 01/26/2024

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 D50: Lethal concentration, 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 2: Flammable liquids – Category 2 Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Dermal 3: Acute toxicity – Category 1 Skin Corrosion 10: Skin corrosion/Irritation – Category 10 Skin Irritation 2: Skin corrosion/Irritation – Category 1 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 - * **Data compared to the previous version altered.**

- Disclaimer

The information set forth is based on information that ND Industries, Incorporated believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and ND Industries Inc. assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

®ND and ND Industries, Inc. are registered trademarks of ND Industries Incorporated, ®Vibra-TITE is a registered trademark of ND Industries, Inc.





Safety Data Sheet

acc. to OSHA HCS

Printing date 01/26/2024

Reviewed on 01/26/2024

Page 1/8

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB405 All Purpose Extremely Fast Set Part B
 - Part number: VTPB405B
 - 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(s) identification

- Classification of the substance or mixture





H351 Suspected of causing cancer.



Acute Toxicity - Oral 4H302 Harmful if swallowed.Acute Toxicity - Inhalation 4H332 Harmful if inhaled.Skin Irritation 2H315 Causes skin irritation.Eye Irritation 2AH319 Causes serious eye irritation.Sensitization - Skin 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure 3H335 May cause respiratory irritation.Flammable Liquids 4H227 Combustible liquid.

- Label elements

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

Hazard pictograms



- Signal word Warning

- *Hazard-determining components of labeling:* Bisphenol-A epoxy resin
- dimethylbenzyl hydroperoxide Cumene benzoyl peroxyde
- Hazard statements
- H227 Combustible liquid.
- H302+H332 Harmful if swallowed or if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.

Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 1)

Reviewed on 01/26/2024

H335	May cause respiratory irritation.
- Precautio	nary statements
P210	Keep away from flames and hot surfaces. – No smoking.
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.
P301+P312	2 If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
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.
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.
P403+P235	5 Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
r hazards	

- 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 o	components:	
CAS: 25068-38-6	Bisphenol-A epoxy resin Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	50 – 59%
CAS: 94-36-0	benzoyl peroxyde Organic Peroxides - Type B, H241; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	20 – 29%
CAS: 131298-44-7	branched C10-alkyl benzoates Acute Toxicity - Inhalation 4, H332	5 – 9%
CAS: 1317-65-3	Calcium Carbonate Skin Irritation 2, H315	5 – 9%
CAS: 80-15-9	dimethylbenzyl hydroperoxide 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 – 4%
CAS: 557-05-1	zinc distearate Specific Target Organ Toxicity - Single Exposure 3, H335	1 – 4%
CAS: 98-82-8	Cumene 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 meas	ures	

- 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:

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.

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 2)

Reviewed on 01/26/2024

```
- 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, 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:
- Mouth respiratory protective device.
- 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 Keep away from ignition sources 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 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 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.

CAS: 80-15-9 dimethylbenzyl hydroperoxide

WEEL	Long-term value: 6 mg/m³, 1 ppm Skin			
CAS: 557-05-1 zinc distearate				
PEL	Long-term value: 15* 5** mg/m ³			

Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

	(Contd. of page 3
REL	Long-term value: 10* 5** mg/m ³
	*total dust **respirable fraction
TLV	Long-term value: 10* 3** mg/m ³
	*inhalable, **respirable particulate matter, *A4
CAS: 6	9012-64-2 Silica-Amorphous Silica fume
TLV	TLV withdrawn
CAS: 9	98-82-8 Cumene
PEL	Long-term value: 245 mg/m³, 50 ppm
	Skin
REL	Long-term value: 245 mg/m ³ , 50 ppm
	Skin
TLV	Long-term value: 5 ppm
	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:

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

lafa maatian an baais abaaisal and aba		
Information on basic physical and che - General Information	emical properties	
- Appearance:		
- Appearance. - Form:	Viscous	
- Color:	Whitish	
- Odor:	Pungent	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
- Melting point/Melting range:	Undetermined.	
 Boiling point/Boiling range: 	≥ 260 °C (≥ 500 °F)	
- Flash point:	84 °C (183.2 °F)	
- Flammability (solid, gaseous):	May cause fire.	
- Decomposition temperature:	Not determined.	
- Ignition temperature:	Product is not selfigniting.	
- Danger of explosion:	Not determined.	
- Explosion limits:		
- Lower:	Not determined.	

Trade name: Vibra-TITE® Methacrylate Adhesives

Reviewed on 01/26/2024

	(Contd. of
- Upper:	Not determined.
- Vapor pressure at 20 °C (68 °F):	< 1 hPa (< 0.8 mm Hg)
- Density at 20 °C (68 °F):	~ 0.96 g/cm³ (~ 8.0112 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/wat	ter): Not determined.
- Viscosity:	
- Dynamic at 20 °C (68 °F):	80,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
 Organic solvents: 	0.3 %
- VOC content:	0.30 %
	~ 2.9 g/l / ~ 0.02 lb/gal
- Solids content:	46.2 %
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 t	that are relevant for	classification:
--------------------	-----------------------	-----------------

ATE (Acute Toxicity Estimate)			
Oral	-	15,159 mg/kg (rat)	
Dermal	LD50	19,841 mg/kg (rat)	
Inhalative	LC50/4 h	18.7 mg/l	
CAS: 1312	298-44-7 b	ranched C10-alkyl benzoates	
Inhalative	LC50/4 h	1.5 mg/l (ATE)	
CAS: 80-1	5-9 dimet	hylbenzyl hydroperoxide	
Oral	LD50	382 mg/kg (rat)	
Dermal	LD50	500 mg/kg (rat)	
Inhalative	LC50/4 h	220 mg/l (rat)	
CAS: 557-	05-1 zinc	distearate	
Oral	LD50	10,000 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: 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: Harmful

Irritant

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 5)

Reviewed on 01/26/2024

- IARC	(International Agency for Research on Cancer)	
CAS: 94-36-0	benzoyl peroxyde	3
CAS: 69012-64-2	Silica-Amorphous Silica fume	3
CAS: 98-82-8	Cumene	28
CAS: 128-37-0	Butylated hydroxytoluene	3
- NTP	(National Toxicology Program)	
CAS: 98-82-8 Cu	mene	R
- OSH	A-Ca (Occupational Safety & Health Administration)	
None of the ingred	lients is listed.	

- 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.

- Ecotoxical effects:

- Remark: Toxic for fish

- Additional ecological information:

- General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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.

4 Transport information	
- UN-Number - DOT, IMDG, IATA	UN3082
- UN proper shipping name - DOT	Environmentally hazardous substance, liquid, n.o.s. (bisphenol A-(epichlorhydrin); epoxy resin)
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin)
- Transport hazard class(es)	
- DOT, IMDG, IATA	
- Class - Label	9 Miscellaneous dangerous substances and articles 9
	(Contd. on page

(Contd. on page 7)

Reviewed on 01/26/2024

Printing date 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 6) - Packing group - DOŤ, ĬMDĠ, IATA Ш - Environmental hazards: Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin); epoxy resin - Marine pollutant: Yes Symbol (fish and tree) - Special marking (IATA): Symbol (fish and tree) - Special precautions for user Warning: Miscellaneous dangerous substances and articles - Hazard identification number (Kemler code): 90 - EMS Number: F-A,S-F - Stowage Category А - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. - Transport/Additional information: - DOT On passenger aircraft/rail: No limit - Quantity limitations On cargo aircraft only: No limit - Remarks: Special marking with the symbol (fish and tree). - IMDG - Limited quantities (LQ) 5L - Excepted quantities (EQ) 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. (BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN), 9, III

15 Regulatory information

CAS: 98-82-8

Cumene

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

- Sara		
- Se	ction 355 (extremely hazardous substances):	
None of the ing	redients is listed.	
- Se	ction 313 (Specific toxic chemical listings):	
CAS: 94-36-0	benzoyl peroxyde	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	
CAS: 557-05-1	zinc distearate	
CAS: 98-82-8	Cumene	
- TSCA	(Toxic Substances Control Act):	
All components	s have the value ACTIVE.	
- Ha	zardous Air Pollutants	
CAS: 98-82-8	Cumene	
- Propo	sition 65	
- Ch	emicals known to cause cancer:	
CAS: 98-82-8	Cumene	
- Ch	emicals known to cause reproductive toxicity for females:	
None of the ing	redients is listed.	
- Ch	emicals known to cause reproductive toxicity for males:	
	redients is listed.	
- Ch	emicals known to cause developmental toxicity:	
None of the ing	redients is listed.	
- Carcin	nogenic categories	
- EP	PA (Environmental Protection Agency)	
CAS: 557-05-1	zinc distearate	D, I, II

Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

	(Contd. of page 7)
- TLV (Threshold Limit Value)	
CAS: 94-36-0 benzoyl peroxyde	A4
CAS: 128-37-0 Butylated hydroxytoluene	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 Affaires
- Contact: Safety, Health and Environmental Affaires
- Classification System:
 - HMIS-ratings (scale 0 4)



- NFPA ratings (scale 0 - 4)



- Date of preparation / last revision 01/26/2024

- 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: verv Persistent and verv 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 B: Organic peroxides – Type B Organic Peroxides - Type E: Organic peroxides – Type E/F Acute Toxicity - Inhalation 3: Acute toxicity - Category 3 Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 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 1A 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

The information set forth is based on information that ND Industries, Incorporated believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and ND Industries Inc. assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

®ND and ND Industries, Inc. are registered trademarks of ND Industries Incorporated, ®Vibra-TITE is a registered trademark of ND Industries, Inc.