01/26/2024 Kit Components	
Product code Description	
VTPB530	Vibra-TITE® Methacrylate Adhesives PB530 All Purpose - Moderate Set Time; High Strength
Components:	
VTPB530A	Vibra-TITE® Methacrylate Adhesives
VTPB530B	Vibra-TITE® Methacrylate Adhesives





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## Safety Data Sheet acc. to OSHA HCS

Printing date 01/26/2024 Reviewed on 01/26/2024

#### 1 Identification

- Product identifier
  - Trade name: Vibra-TITE® Methacrylate Adhesives
    - Synonyms: PB530 All Purpose Moderate Set Time; High Strength Part A
    - Part number: VTPB530A
    - 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



Flammable Liquids 2 H225 Highly flammable liquid and vapor.



GHS07

Skin Irritation 2

Eye Irritation 2A

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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 GHS07

- Signal word Danger
- Hazard-determining components of labeling:

methyl methacrylate 2-ethylhexyl methacrylate 2-hydroxyethyl methacrylate maleic anhydride Monofunctional acid ester mequinol

- Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

- Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

## Safety Data Sheet

Printing date 01/26/2024 Reviewed on 01/26/2024

#### Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 1) P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P271 Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. P272 P280 Wear protective gloves/protective clothing/eye protection/face protection. P280 Wear protective gloves. P280 Wear eye protection / face protection. 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. 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. Specific treatment (see on this label). P321 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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

P501 - 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	30 – 39%
	Flammable Liquids 2, H225; Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 688-84-6	2-ethylhexyl methacrylate	20 – 29%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	
CAS: 868-77-9	2-hydroxyethyl methacrylate	5 – 9%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
CAS: 108-31-6	maleic anhydride	≤ 1%
	Sensitization - Respiratory 1, H334; Specific Target Organ Toxicity - Repeated Exposure 1, H372; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	≤ 1%
	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	
	Monofunctional acid ester	≤ 1%
	Acute Toxicity - Dermal 3, H311; Skin Corrosion 1C, H314; Eye Damage 1, H318; Sensitization - Skin 1, H317	
CAS: 150-76-5	mequinol	≤ 1%
	Acute Toxicity - Oral 4, H302; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	

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

Printing date 01/26/2024 Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 2)

#### 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:

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 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).

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:	CAS: 80-62-6 methyl methacrylate		
PEL	Long-term value: 410 mg/m³, 100 ppm		
REL	Long-term value: 410 mg/m³, 100 ppm		
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4		
CAS:	108-31-6 maleic anhydride		
PEL	Long-term value: 1 mg/m³, 0.25 ppm		
REL	Long-term value: 1 mg/m³, 0.25 ppm		
TLV	Long-term value: 0.01* mg/m³ DSEN, RSEN;*inh. fraction + vapor, A4		
CAS:	80-15-9 dimethylbenzyl hydroperoxide		
WEEL	Long-term value: 6 mg/m³, 1 ppm Skin		
	(Contd. on page 4)		

Printing date 01/26/2024 Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

 CAS: 150-76-5 mequinol

 REL
 Long-term value: 5 mg/m³

 TLV
 Long-term value: 5 mg/m³

- 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

formation on basic physical and che	emical properties
- General Information - Appearance:	
- Appearance. - Form:	Viscous
- Color:	Whitish
- Odor:	Pungent
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition	
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.
<ul> <li>Boiling point/Boiling range:</li> </ul>	≥ 101 °C (≥ 213.8 °F)
- Flash point:	10 °C (50 °F)
- Flammability (solid, gaseous):	Highly flammable.
- Auto igniting:	430 °C (806 °F)
- 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 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.

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 4)

<ul> <li>Solubility in / Miscibility with</li> <li>Water:</li> </ul>	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wat	ter): Not determined.
- Viscosity:	
- Dynamic at 20 °C (68 °F):	325,000 mPas
- Kinematic:	Not determined.
- Solvent content:	
- Organic solvents:	0.1 %
- VOC content:	0.05 %
	~ 0.5 g/l / ~ 0.00 lb/gal
- Solids content:	33.8 %
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:

- L	D/LC50 v	alues that are relevant for classification:
ATE (Acu	ite Toxicity	r Estimate)
Dermal	LD50	75,000 mg/kg
Inhalative	LC50/4 h	52,381 mg/l (rat)
CAS: 80-	62-6 methy	yl methacrylate
Oral	LD50	7,872 mg/kg (rat)
CAS: 868	3-77-9 2-hy	droxyethyl methacrylate
Oral	LD50	5,050 mg/kg (rat)
CAS: 108	3-31-6 male	ic anhydride
Oral	LD50	400 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)
CAS: 80-	15-9 dimet	hylbenzyl hydroperoxide
Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)
Monofun	Monofunctional acid ester	
Dermal	LD50	300 mg/kg (ATE)
CAS: 150	CAS: 150-76-5 mequinol	
Oral	LD50	1,600 mg/kg (rat)
- F	rimary iri	ritant effect:

- 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

- <i>IA</i>	- IARC (International Agency for Research on Cancer)		
CAS: 80-62-6	methyl methacrylate	3	
CAS: 128-37-0	Butylated hydroxytoluene	3	
CAS: 98-82-8	Cumene	2B	

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 5)

- NTP (National Toxicology Program)	
CAS: 98-82-8 Cumene	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.

- 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.

- Recommendation. Disposal must be made according to o	modifications.
14 Transport information	
- UN-Number - DOT, IMDG, IATA	UN1133
- UN proper shipping name - DOT - IMDG, IATA	Adhesives ADHESIVES
- Transport hazard class(es)	
- DOT	
T MAN T I MAN	
- Class	3 Flammable liquids
- Label	3
- IMDG, IATA	
- Class	3 Flammable liquids
- Label	3
- Packing group - DOT, IMDG, IATA	III
- Environmental hazards: - Marine pollutant:	No
- Special precautions for user	Warning: Flammable liquids
<ul> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	-
- EMS Number: - Stowage Category	F-E,S-D A

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Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 6)

- Transport in bulk according to Annex II of M	IARPOL73/78
and the IBC Code	Not applicable.
Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 60 L
•	On cargo aircraft only: 220 L
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (ÉQ)	Code: E1
,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1133 ADHESIVES, 3, III

## 15 Regulatory information

- 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: 80-62-6	methyl methacrylate
CAS: 108-31-6	maleic anhydride
CAS: 80-15-9	dimethylbenzyl hydroperoxide
	Monofunctional acid ester
CAS: 98-82-8	Cumene
- TSCA	(Toxic Substances Control Act):
All components	have the value ACTIVE.
- Ha	zardous Air Pollutants
CAS: 80-62-6	methyl methacrylate
CAS: 108-31-6	maleic anhydride
CAS: 98-82-8	Cumene
<b>n</b>	aidian CE

#### - Proposition 65

- Chemicals known to cause cancer:			
	Impact modifying resin		
	Chlorosulfanated polyethylene		
CAS: 98-82-8	Cumene		
- Ci	- Chemicals known to cause reproductive toxicity for females:		
Impact modify	ng resin		
Monofunctiona	Monofunctional acid ester		
- Ci	- Chemicals known to cause reproductive toxicity for males:		
Impact modify	Impact modifying resin		
Monofunctiona	Monofunctional acid ester		
- Ci	- Chemicals known to cause developmental toxicity:		
Monofunctiona	Monofunctional acid ester		

#### - Carcinogenic categories

Our on	rogemo outegorico	
- EF	PA (Environmental Protection Agency)	
CAS: 80-62-6	methyl methacrylate	E, NL
CAS: 98-82-8	Cumene	D, CB
- TL	V (Threshold Limit Value)	
CAS: 80-62-6	methyl methacrylate	A
CAS: 108-31-6	maleic anhydride	Α
CAS: 128-37-0	Butylated hydroxytoluene	A
- N/	OSH-Ca (National Institute for Occupational Safety and Health)	
None of the ing	redients is listed.	
		(Cantal an man

Printing date 01/26/2024 Reviewed on 01/26/2024

Trade name: Vibra-TITE® Methacrylate Adhesives

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. of page 7)

## 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)



Fire = 3

- NFPA ratings (scale 0 - 4)



Health = 2 Fire = 3Reactivity = 0

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

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

Organic Peroxides - Type E: Organic peroxides - Type Err Acute Toxicity - Oral 4: Acute toxicity - Category 4 Acute Toxicity - Inhalation 3: Acute toxicity - Category 3 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Skin Corrosion 1C: Skin corrosion/irritation - Category 1C

Skin Irritation 2: Skin corrosion/irritation - Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Respiratory 1: Respiratory sensitisation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1
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.

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## **Safety Data Sheet** acc. to OSHA HCS

Printing date 01/26/2024 Reviewed on 01/26/2024

#### 1 Identification

- Product identifier
  - Trade name: Vibra-TITE® Methacrylate Adhesives
    - Synonyms: PB530 All Purpose Moderate Set Time; High Strength Part B
    - Part number: VTPB530B
    - 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



Flammable Liquids 2 H225 Highly flammable liquid and vapor.



Skin Irritation 2 H315 Causes skin irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

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





- Signal word Danger
- Hazard-determining components of labeling:

methyl methacrylate

Rosin

- Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

- Precautionary statements

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.

Use only non-sparking tools. P242

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area. P271

## Safety Data Sheet

Printing date 01/26/2024 Reviewed on 01/26/2024

#### Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 1)

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.

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.

P312 Call a poison center/doctor if you feel unwell.

P362+P364
P332+P313
P333+P313
P321
P403+P233
P364
P365
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
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.

- Dangerous	- Dangerous components:	
CAS: 80-62-6	methyl methacrylate	69.10%
	Flammable Liquids 2, H225; Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 34562-31-7	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	1 – 4%
	Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Eye Irritation 2B, H320	
CAS: 8050-09-7	Rosin	≤ 1%
	Sensitization - Skin 1, H317	

#### 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. Then 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.
  - 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:

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 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).

Ensure adequate ventilation.

## Safety Data Sheet

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#### Trade name: Vibra-TITE® Methacrylate Adhesives

(Contd. of page 2)

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 remaining constituent has no known exposure limits.

CAS	: 80-62-6 methyl methacrylate		
PEL	Long-term value: 410 mg/m³, 100 ppm		
REL	Long-term value: 410 mg/m³, 100 ppm		
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4		
CAS	CAS: 8050-09-7 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.

## - 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 skin.

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.

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#### - Eye protection:



Tightly sealed goggles

- Body protection: Protective work clothing

## \* 9 Physical and chemical properties

- Information on basic physical and che	nmical proportios	
- General Information	emical properties	
- Appearance:		
- Form:	Viscous	
- Color:	Whitish	
- Odor:	Pungent	
<ul><li>Odor threshold:</li></ul>	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.	
<ul> <li>Boiling point/Boiling range:</li> </ul>	≥ 101 °C (≥ 213.8 °F)	
- Flash point:	10 °C (50 °F)	
- Flammability (solid, gaseous):	Highly flammable.	
- Auto igniting:	430 °C (806 °F)	
- 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 at 20 °C (68 °F):	~ 1.25 g/cm³ (~ 10.43125 lbs/gal)	
- Relative density	Not determined.	
<ul> <li>Vapor density</li> </ul>	Not determined.	
- Evaporation rate	Not determined.	
- Solubility in / Miscibility with		
- Water:	Not miscible or difficult to mix.	
- Partition coefficient (n-octanol/water): Not determined.		
- Viscosity:		
- Dynamic at 20 °C (68 °F):	100,000 mPas	
- Kinematic:	Not determined.	
- Solvent content:		
- Water:	0.2 %	
<ul><li>VOC content:</li></ul>	0.00 %	
	0.0 g/l / 0.00 lb/gal	
- Solids content:	29.2 %	
- 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.

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- 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 (Ac	cute Toxicity Estimate)
Oral	LD50 33,333 mg/kg
Dermal	LD50 73,333 mg/kg
CAS: 80	0-62-6 methyl methacrylate
Oral	LD50 7,872 mg/kg (rat)
CAS: 34	4562-31-7 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine
Oral	LD50   500 mg/kg (ATE)
Dermal	LD50 1,100 mg/kg (ATE)

- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: No 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: 80-62-6	methyl methacrylate	3
CAS: 9010-98-4	Neoprene rubber	3
CAS: 14807-96-6	Soapstone	3
- NTP (	National Toxicology Program)	
None of the ingred	ients is listed.	
- OSHA	A-Ca (Occupational Safety & Health Administration)	
None of the ingred	ients 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.

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

- UN-Number
  - DOT, IMDG, IATA

UN1133

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- UN proper shipping name - DOT	Adhesives
- IMDG, IATA	ADHESIVES
- Transport hazard class(es)	
- DOT	
none and the second	
- Class	3 Flammable liquids
- Label	3
- IMDG, IATA	
- Class	3 Flammable liquids
- Label	3
- Packing group - DOT, IMDG, IATA	III
- Environmental hazards: - Marine pollutant:	No
- Special precautions for user	Warning: Flammable liquids
<ul> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	-
- Stowage Category	F-E,S-D A
- Transport in bulk according to Annex II of MARPOL73/7	78
and the IBC Code	Not applicable.
- Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
- 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 1133 ADHESIVES, 3, III
or mountinguiation i	014 1100 / DITEON EO, 0, III

## 15 Regulatory information

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

- Sara

- Sec	tion 355 (extremely hazardous substances):
None of the ingr	edients is listed.
- Sec	tion 313 (Specific toxic chemical listings):
CAS: 80-62-6	methyl methacrylate
CAS: 13395-16-	9 copper(II) 4-oxopent-2-en-2-olate
- TSCA	(Toxic Substances Control Act):
All components	have the value ACTIVE.
- Haz	ardous Air Pollutants
CAS: 80-62-6 n	nethyl methacrylate
- Propos	cition 65

- Proposition 65

- Chemicals known to cause cancer:
Impact modifying resin

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(Contd. of page 6) - Chemicals known to cause reproductive toxicity for females: Impact modifying resin - Chemicals known to cause reproductive toxicity for males: Impact modifying resin - Chemicals known to cause developmental toxicity: None of the ingredients is listed.

#### - Carcinogenic categories

E, NL
A4
A4

- 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)



Fire = 3

- NFPA ratings (scale 0 - 4)



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#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 2: Flammable liquids - Category 2

Acute Toxicity - Oral 4: Acute toxicity - Category 4
Skin Irritation 2: Skin corrosion/irritation - Category 2

Skin Inflation 2B: Serious eye damage/eye irritation – Category 2B
Sensitization - Skin 1: Skin sensitisation – Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

- \* Data compared to the previous version altered.

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