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Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2024 Reviewed on 01/23/2024

1 Identification

- Product identifier

- Trade name: Vibra-TITE® UV Adhesives

- Synonyms: 250 Light Cure Adhesive

- Part number: VT250

- 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



GHS08 Health hazard

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Eye Damage 1 H318 Causes serious eye damage.



GHS07

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.

Flammable Liquids 4 H227 Combustible liquid.

- Label elements

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

- Hazard pictograms







GHS05 GHS07 GHS08

- Signal word Danger

- Hazard-determining components of labeling:

Urethane acrylate oligomer
1-vinyl-2-pyrrolidone
Urethane acrylate
Propoxylated neopentyl glycol diacrylate esters
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

- Hazard statements

H227 Combustible liquid. H315 Causes skin irritation. H318 Causes serious eye damage.

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H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

H335 May cause respiratory irritation.

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

- Precautionary statements

P210 Keep away from flames and hot surfaces. – No smoking.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a poison center/doctor.

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

P321 Specific treatment (see on this label).
P312 Call a poison center/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.

P362+P364
P332+P313
P333+P313
P403+P233
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.
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	components:	
	Urethane acrylate oligomer	50 – 59%
	Sensitization - Skin 1B, H317; Eye Irritation 2B, H320	
CAS: 84170-74-1	Propoxylated neopentyl glycol diacrylate esters	10 – 19%
	Skin Irritation 2, H315; Sensitization - Skin 1B, H317; Specific Target Organ Toxicity - Single Exposure 3, H335; Eye Irritation 2B, H320	
	Urethane acrylate	10 – 19%
	Toxic to Reproduction 1B, H360; Skin Irritation 2, H315; Eye Irritation 2A, H319	
CAS: 88-12-0	1-vinyl-2-pyrrolidone	10 – 19%
	Specific Target Organ Toxicity - Repeated Exposure 2, H373; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	1 – 4%
	Toxic to Reproduction 2, H361; Sensitization - Skin 1, H317	
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone	1 – 4%
	Acute Toxicity - Oral 4, H302	

4 First-aid measures

- 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. 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.

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

5 Fire-fighting measures

- Extinguishing media

- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

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

- Methods and material for containment and cleaning up:

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.

Open and handle receptacle with care.

Prevent formation of aerosols.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

CAS: 88-12-0 1-vinyl-2-pyrrolidone

TLV Long-term value: 0.05 ppm

А3

- 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.

Store protective clothing separately.

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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:



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Required use of safety glasses
- Body protection: Protective work clothing

9 Physical and chemical properties

General Information	
- Appearance:	15m/dd
- Form: - Color:	Liquid Clear
- Color: - Odor:	Clear Characteristic
- Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
- Melting point/Melting range:	Undetermined.
- Boiling point/Boiling range:	≥ 93 – ≤ 94 °C (≥ 199.4 – ≤ 201.2 °F)
Flash point:	93 °C (199.4 °F)
Flammability (solid, gaseous):	Not applicable.
· Auto igniting:	240 °C (464 °F)
- Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Not determined.
Explosion limits:	
- Lower:	1.4 Vol %
- Upper:	10 Vol %
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	~ 1.05986 g/cm³ (~ 8.84453 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/wate	er): Not determined.
· Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
Solvent content:	
- Organic solvents:	11.6 %

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- VOC content:

11.63 %

~ 123.2 g/l / ~ 1.03 lb/gal

- Solids content:

2.8 %

- 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:

- LI	D/LC50 v	alues that are relevant for classification:
ATE (Acut	te Toxicity	r Estimate)
Oral	LD50	11,117 mg/kg (rat)
Dermal	LD50	4,816 mg/kg (rabbit)
Inhalative	LC50/4 h	27.5 mg/l (rat)
CAS: 88-1	2-0 1-viny	/I-2-pyrrolidone
Oral	LD50	1,470 mg/kg (rat)
Dermal	LD50	560 mg/kg (rabbit)
Inhalative	LC50/4 h	3.2 mg/l (rat)
CAS: 7598	80-60-8 di _l	phenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Oral	LD50	> 5,000 mg/kg (rat)
CAS: 7473-98-5 2-hydroxy-2-methylpropiophenone		
Oral	LD50	1,694 mg/kg (rat)

- Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Strong irritant with the danger of severe eye injury.
- 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: 88-12-0 1-vinyl-2-pyrrolidone 3
- NTP (National Toxicology Program)
None of the ingredients is listed.
- 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.

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- 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, ADN, IMDG, IATA	not regulated			
- UN proper shipping name - DOT, ADN, IMDG, IATA	not regulated			
- Transport hazard class(es)				
- DOT, ADN, IMDG, IATA - Class	not regulated			
- Packing group - DOT, IMDG, IATA	not regulated			
- Environmental hazards:	Not applicable.			
- Special precautions for user	Not applicable.			
- Transport in bulk according to Annex II of and the IBC Code	of MARPOL73/78 Not applicable.			
- UN "Model Regulation":	not regulated			

15 Regulatory information

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

- Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
- TSCA (Toxic Substances Control Act):	
Urethane acrylate oligomer	ACTIVE
Propoxylated neopentyl glycol diacrylate esters	ACTIVE
Urethane acrylate	*
1-vinyl-2-pyrrolidone	ACTIVE
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	ACTIVE
2-hydroxy-2-methylpropiophenone	ACTIVE
Additive	ACTIVE
- Hazardous Air Pollutants	
None of the ingredients is listed.	
- Proposition 65	

- Proposition 65	
- Chemicals known to cause cancer:	
None of the ingredients is listed.	
- Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
- Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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- Carcinogenic categories

- EPA (Environmental Protection Agency) None of the ingredients is listed. - TLV (Threshold Limit Value) CAS: 88-12-0 | 1-vinyl-2-pyrrolidone A3 - 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 01/23/2024

Abbreviations and acronyms:

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

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 4: Flammable liquids – Category 4

Acute Toxicity - Oral 4: Acute toxicity - Category 4
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 Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B

Sensitization - Skin 1: Skin sensitisation - Category 1

Sensitization - Skin 1B: Skin sensitisation - Category 1B

Seristization - Skin IB. Skin Seristisation - Category 1B
Toxic to Reproduction 1B: Reproductive toxicity - Category 1B
Toxic to Reproduction 2: Reproductive toxicity - 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

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