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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/29/2024 Reviewed on 01/29/2024

1 Identification

- Product identifier

- Trade name: Vibra-TITE® UV Adhesives

- Synonyms: 255 Light Cure Adhesive

- Part number: VT255

- 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 identification

- Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity – Category 2 H351 Suspected of causing cancer.

Reproductive Toxicity - Category 2 H361 Suspected of damaging fertility or the unborn child.



Skin Irritation - Category 2

Eye Irritation - Category 2A

Skin Sensitizer - Category 1

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Flammable Liquids - Category 4 H227 Combustible liquid.

- Label elements

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

- Hazard pictograms





GHS07 GHS08

- Signal word Warning

- Hazard-determining components of labeling:

Urethane acrylate oligomer

Acrylic polymer

diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Epoxy Diacrylate

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Propoxylated neopentyl glycol diacrylate esters

- Hazard statements

H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

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-	Precautionary s	statements
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264	Wash thoroughly after handling.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P280	Wear protective gloves.
	P302+P352	If on skin: Wash with plenty of water.
	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.
	P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
	P403	Store in a well-ventilated place.
	P405	Store locked up.

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

3 Composition/Information on ingredients

- Chemical characterization: Mixtures

P501

- Description: Mixture of the substances listed below with nonhazardous additions.

 Dangerous 	components:	
	Urethane acrylate oligomer	30 - 60% w/v
	Skin Sensitizer - Category 1B, H317; Eye Irritation - Category 2B, H320	
	Epoxy Diacrylate	10 – 30% w/v
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1B, H317	
CAS: 616-45-5	Additive	5 – 10% w/w
	Acute Toxicity (Oral) - Category 4, H302; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319	
CAS: 2399-48-6	Tetrahydrofurfuryl acrylate	5 – 10% w/w
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319	
CAS: 84170-74-1	Propoxylated neopentyl glycol diacrylate esters	5 – 10% w/w
	Skin Sensitizer - Category 1B, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Eye Irritation - Category 2B, H320	
CAS: 15625-89-5	Acrylic polymer	1 – 5% w/w
	Carcinogenicity – Category 2, H351; Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	
CAS: 42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	1 – 5% w/w
	Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Eye Irritation - Category 2B, H320	
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone	1 – 5% w/w
	Acute Toxicity (Oral) - Category 4, H302	
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	1 – 5% w/w
	Reproductive Toxicity - Category 2, H361; Skin Sensitizer - Category 1, H317	1

4 First-aid measures

- Description of first aid measures

- After inhalation:

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

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - Indication of any immediate medical attention and special treatment needed No further relevant information available.

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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:

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:

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: 15625-89-5 Acrylic polymer

WEEL (USA) TWA: 1 mg/m³

Skin

- 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.

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- 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.

- 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

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- Information on basic physical and chemical properties		
- General Information		
- Appearance:		
- Form:	Liquid	
- Color:	Clear	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
- Melting point/Melting range:	Undetermined.	
- Boiling point/Boiling range:	≥ 93 °C	
- Flash point:	93 °C	
- Flammability (solid, gaseous):	Not applicable.	
- Auto igniting:	240 °C	
- Decomposition temperature:	Not determined.	
- Ignition temperature:	Product is not selfigniting.	
- Danger of explosion:	Not determined.	
- Explosion limits:		
- Lower:	Not determined.	
- Upper:	Not determined.	
- Vapor pressure:	Not determined.	
- Density at 20 °C:	~ 1.11035 g/cm³	
- Relative density	Not determined.	
- Vapor density	Not determined.	
- Evaporation rate	Not determined.	
•	Tion doto///illinou.	
- Solubility in / Miscibility with		
- Water:	Not miscible or difficult to mix.	
- Partition coefficient (n-octanol/wa	ater): Not determined.	
- Viscosity:		
- Dynamic:	Not determined.	
- Kinematic:	Not determined.	
- Solvent content:		
- Organic solvents:	3.0 %	
- VOC content:	3.00 %	
	~ 33.3 g/l / ~ 0.28 lb/gal	
- Solids content:	11.0 %	
- Other information	No further relevant information available.	
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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:

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- LD/	/LC50 values that are relevant for classification:
ATE (Acute	Toxicity Estimate)
Oral LD50	3,494 mg/kg (rat)
CAS: 616-4	5-5 Additive
Oral LD50	328 mg/kg (rat)
CAS: 42978	3-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
Oral LD50	5,000 mg/kg (rat)
CAS: 7473-	98-5 2-hydroxy-2-methylpropiophenone
Oral LD50	1,694 mg/kg (rat)
CAS: 75980	0-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Oral LD50	> 5,000 mg/kg (rat)

- 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:

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)	
CAS: 15625-89-5 Acrylic polymer	2B
- NTP (National Toxicology Program)	
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.
- Ecotoxical effects:
 - Remark: Harmful to fish
- 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.

Harmful to 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.

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Uncleaned packagings:
 Recommendation: Disposal must be made according to official regulations.

UN-Number - DOT/TDG, ADR, IMDG, IATA	UN3082
- UN proper shipping name	
- DOT/TDG	Environmentally hazardous substance, liquid, n.o.s. (Tetrahydrofurfuryl acrylate, Tripropylene glycol diacrylate)
- ADR	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Tetrahydrofurfuryl acrylate, Tripropylene glycol diacrylate)
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrahydrofurfuryl acrylate, Tripropylene glycol diacrylate), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrahydrofurfuryl acrylate, Tripropylene glycol diacrylate)
Transport hazard class(es)	
- DOT/TDG, ADR, IMDG, IATA	
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- Class - Label	9 Miscellaneous dangerous substances and articles 9
- Packing group - DOT/TDG, ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: trimethylolpropane triacrylate
- Marine pollutant:	Yes (DOT) Symbol (fish and tree)
- Special marking (ADR): - Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
- Special precautions for user	Warning: Miscellaneous dangerous substances and articles
 Hazard identification number (Kemler code): EMS Number: 	90 F-A,S-F
- Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/	778 Not applicable.
Transport/Additional information:	,
- DOT/TDG	
- Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
- Remarks:	Special marking with the symbol (fish and tree).
- ADR	
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- IMDG	
- Limited quantities (LQ) - Excepted quantities (EQ)	5L 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. (TETRAHYDROFURFURYL ACRYLATE, TRIPROPYLENE GLYCOL DIACRYLATE), 9, III

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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
Additive	ACTIVE
Tetrahydrofurfuryl acrylate	ACTIVE
Propoxylated neopentyl glycol diacrylate esters	ACTIVE
Acrylic polymer	ACTIVE
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	ACTIVE
2-hydroxy-2-methylpropiophenone	ACTIVE
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	ACTIVE

Canadian substance listings

- Canadian substance listings:			
- Cana	- Canadian Domestic Substances List (DSL)		
CAS: 616-45-5	Additive		
CAS: 84170-74-1	Propoxylated neopentyl glycol diacrylate esters		
CAS: 15625-89-5	Acrylic polymer		
CAS: 42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate		
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone		
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide		
- Cana	- Canadian Non-Domestic Substances List (NDSL)		
CAS: 2399-48-6	CAS: 2399-48-6 Tetrahydrofurfuryl acrylate		
- Cana	- Canadian Ingredient Disclosure list (limit 0.1%)		
None of the ingredients is listed.			
- Canadian Ingredient Disclosure list (limit 1%)			
None of the ingre	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 the latest revision of the safety data sheet 01/29/2024

- Abbreviations and acronyms:

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

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- Disclaimer

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