



## Safety Data Sheet

acc. to OSHA HCS

Printing date 01/23/2024

#### Reviewed on 12/14/2023

Page 1/9

## **1** Identification

## - Product identifier

- Trade name: Vibra-TITE® Retaining Compound
  - Synonyms: 548 Rapid Curing Retaining Compound
  - Part number: VT548
  - Application of the substance / the mixture Assembly adhesive
  - Retaining agents

## - 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

Carcinogenicity 2 H351 Suspected of causing cancer.

GHS05 Corrosion

Eye Damage 1

H318 Causes serious eye damage.

GHS07

Skin Irritation 2H315 Causes skin irritation.Sensitization - Skin 1H317 May cause an allergic skin reaction.

- Label elements

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



- Signal word Danger

## - Hazard-determining components of labeling:

2-hydroxyethyl methacrylate acrylic acid Cumene Diacrylate Bisphenol A epoxy Acrylate 2-[[3-hydroxy-2,2-bis[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate 2'-phenylacetohydrazide - Hazard statements

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.

## Safety Data Sheet acc. to OSHA HCS

## Trade name: Vibra-TITE® Retaining Compound

(Contd. of page 1)

Reviewed on 12/14/2023

H351 Suspecte	ed of causing cancer.
- Precautional	ry statements
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P	338 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).
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.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
er 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	components:	
CAS: 868-77-9	2-hydroxyethyl methacrylate	20 – 29%
	Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
CAS: 7779-31-9	Methacrylate onomer	10 – 19%
	Skin Irritation 2, H315; Eye Irritation 2A, H319	
CAS: 42594-17-2	,	10 – 19%
	Sensitization - Skin 1, H317	
	Bisphenol A epoxy Acrylate	10 – 19%
	Sensitization - Skin 1, H317	
	Acrylic polymer	10 – 19%
	Combustible Dust	
CAS: 79-10-7	acrylic acid	4.70%
	Flammable Liquids 3, H226; Skin Corrosion 1A, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332	
CAS: 60506-81-2	2-[[3-hydroxy-2,2-bis[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	1 – 4%
	Eye Irritation 2A, H319; 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	
CAS: 79-41-4	Methacrylic acid	≤ 1%
	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	
CAS: 26936-30-1	Methacryloxypropyltrimethoxysilane Sensitization - Skin 1B, H317	≤ 1%
CAS: 114-83-0	2'-phenylacetohydrazide	≤ 1%
	Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 98-82-8	Cumene	≤ 1%
	Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	

(Contd. of page 2)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2024

#### Trade name: Vibra-TITE® Retaining Compound

Reviewed on 12/14/2023

#### **4 First-aid measures**

#### - Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

#### - After inhalation:

- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

#### 5 Fire-fighting measures

#### - Extinguishing media

#### Suitable extinguishing agents:

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

- 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:

Use neutralizing agent.

Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

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: No special measures required.

#### - 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.

### Trade name: Vibra-TITE® Retaining Compound

Reviewed on 12/14/2023

(Contd. of pag
79-10-7 acrylic acid
Long-term value: 6 mg/m³, 2 ppm Skin
Long-term value: 2 ppm Skin, A3
30-15-9 dimethylbenzyl hydroperoxide
Long-term value: 6 mg/m³, 1 ppm Skin
79-41-4 Methacrylic acid
Long-term value: 70 mg/m³, 20 ppm Skin
Long-term value: 20 ppm
98-82-8 Cumene
Long-term value: 245 mg/m³, 50 ppm Skin
Long-term value: 245 mg/m³, 50 ppm Skin
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:
- Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

## - Protection of hands:



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:** 

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Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties - Information on basic physical and chemical properties - General Information - Appearance:	
Green	
Weak, characteristic	
Not determined.	
Not determined.	
Undetermined.	
	Fluid Fluid Green Weak, characteristic Not determined. Not determined.

Printing date 01/23/2024

#### Trade name: Vibra-TITE® Retaining Compound

Reviewed on 12/14/2023

Other information	No further relevant information available.	
- Solids content:	0.6 %	
	~ 7.0 g/l / ~ 0.06 lb/gal	
- VOC content:	0.69 %	
- Organic solvents: - Water:	0.7 %	
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> </ul>	0.7 %	
- Dynamic at 20 °C (68 °F): - Kinematic:	525 mPas Not determined.	
- Viscosity:		
- Partition coefficient (n-octanol/wa	ater): Not determined.	
- Water:	Not miscible or difficult to mix.	
- Solubility in / Miscibility with		
- Evaporation rate	Not determined.	
- Vapor density	Not determined.	
- Relative density	Not determined.	
- Density at 20 °C (68 °F):	~ 1.01 g/cm³ (~ 8.42845 lbs/gal)	
- Vapor pressure at 68 °C (154.4 °F)	): ≤ 1.3 hPa (≤ 1 mm Hg)	
- Upper:	Not determined.	
- Lower:	Not determined.	
- Explosion limits:		
- Danger of explosion:	Product does not present an explosion hazard.	
- Ignition temperature:	Product is not selfigniting.	
- Decomposition temperature:	Not determined.	
- Flammability (solid, gaseous):	Not applicable.	
- Flash point:	95 °C (203 °F)	
<ul> <li>Boiling point/Boiling range:</li> </ul>	≥ 213 °C (≥ 415.4 °F)	

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	/ Estimate)
Oral	LD50	5,319 mg/kg (rat)
Dermal	LD50	5,439 mg/kg (rabbit)
Inhalative	LC50/4 h	232 mg/l
CAS: 868-	77-9 2-hy	droxyethyl methacrylate
Oral	LD50	5,050 mg/kg (rat)
CAS: 79-1	0-7 acryli	c acid
Oral	LD50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
CAS: 80-1	5-9 dimet	hylbenzyl hydroperoxide
Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)

Reviewed on 12/14/2023

#### Trade name: Vibra-TITE® Retaining Compound

		age 5
LC50/4 h	220 mg/l (rat)	
1-4 Metha	acrylic acid	
LD50	1,332 mg/kg (mouse)	
LD50	500 mg/kg (rabbit)	
LC50/4 h	11 mg/l (ATE)	
36-30-1 Me	ethacryloxypropyltrimethoxysilane	
LD50	> 2,000 mg/kg (rat)	
LD50	> 2,000 mg/kg (rat)	
83-0 2'-ph	enylacetohydrazide	
LD50	270 mg/kg (mouse)	
2-8 Cume	ne	
LD50	1,400 mg/kg (rat)	
LD50	12,300 mg/kg (rabbit)	
LC50/4 h	24.7 mg/l (mouse)	
	1-4 Metha LD50 LD50 LC50/4 h 36-30-1 Ma LD50 LD50 83-0 2'-ph LD50 2-8 Cume LD50 LD50 LD50	LD50       500 mg/kg (rabbit)         LC50/4 h       11 mg/l (ATE)         S6-30-1 Methacryloxypropyltrimethoxysilane         LD50       > 2,000 mg/kg (rat)         LD50       > 2,000 mg/kg (rat)         83-0 2'-phenylacetohydrazide         LD50       270 mg/kg (mouse)         2-8 Cumene         LD50       1,400 mg/kg (rat)

#### - Primary irritant effect:

- on the skin: Caustic effect on skin and mucous membranes.

- on the eye: Strong caustic effect.

- Sensitization: Sensitization possible through skin contact.

## - Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive Irritant

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

#### - Carcinogenic categories

- IAF	RC (International Agency for Research on Cancer)	
CAS: 79-10-7	acrylic acid	3
CAS: 98-82-8	Cumene	2B
CAS: 91-20-3	naphthalene	2B
CAS: 1330-20-7	/ Mixed Xylenes	3
CAS: 100-41-4	ethylbenzene	2B
- NT	P (National Toxicology Program)	
CAS: 98-82-8	Cumene	R
CAS: 130-15-4	1,4-naphthoquinone	R
CAS: 91-20-3	naphthalene	R
- OS	HA-Ca (Occupational Safety & Health Administration)	
None of the ingr	edients is listed.	
12 Ecological i	nformation	

- 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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Harmful to aquatic organisms

## - Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- vPvB: Not applicable.

- Other adverse effects No further relevant information available.

# Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2024

## Trade name: Vibra-TITE® Retaining Compound

Reviewed on 12/14/2023

(Contd. of page 6)

	(Contd. of page 6)
13 Disposal considerations	
- Waste treatment methods - Recommendation: Must not be disposed of	f together with household garbage. Do not allow product to reach sewage system.
<ul> <li>Uncleaned packagings:</li> <li>Recommendation: Disposal must be made</li> </ul>	according to official regulations.
14 Transport information	
- UN-Number - DOT, IMDG, IATA	not regulated
- UN proper shipping name - DOT, IMDG, IATA	not regulated
<ul> <li>Transport hazard class(es)</li> </ul>	
- DOT, ADN, IMDG, IATA - Class	not regulated
- Packing group - DOT, IMDG, IATA	not regulated
- Environmental hazards: - Marine pollutant:	No
- Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex II of and the IBC Code</li> </ul>	MARPOL73/78 Not applicable.
- UN "Model Regulation":	not regulated
45 Degulaters information	

## 15 Regulatory information

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

- Sara

None of the ingre	edients is listed.	
- Sec	tion 313 (Specific toxic chemical listings):	
CAS: 79-10-7	acrylic acid	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	
CAS: 98-82-8	Cumene	
CAS: 98-86-2	acetophenone	
CAS: 91-20-3	naphthalene	
CAS: 1330-20-7	Mixed Xylenes	
CAS: 100-41-4	ethylbenzene	
- TSCA (	Toxic Substances Control Act):	
2-hydroxyethyl m	nethacrylate	ACTIV
Methacrylate onomer		ACTIV
Diacrylate		ACTIV
Bisphenol A epoxy Acrylate		ACTIV
Acrylic polymer		ACTIV
acrylic acid		ACTIV
2-[[3-hydroxy-2,2	2-bis[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	ACTIV
dimethylbenzyl h	ydroperoxide	ACTIV
Methacrylic acid		ACTIV
Saccharin		ACTIV
Deionized water		ACTIV
propane-1,2-diol		ACTIV
Methacryloxypro	pyltrimethoxysilane	ACTIV
2'-phenylacetohy	/drazide	ACTIV
2-(2-methylprop-	2-enoyloxy)ethyl 2-methylprop-2-enoate	ACTIV

## Safety Data Sheet acc. to OSHA HCS

## Trade name: Vibra-TITE® Retaining Compound

Cumene		(Contd. of pag
	bleum), hydrotreated light naphthenic	ACTIV
Colorant		ACTIV
Solvent Yellow	126	ACTIV
	ylbis(5-tert-butyl-1,3-benzoxazole)	ACTIV
	ylenediaminetetraacetate	ACTIV
	a (petroleum), heavy arom.	ACTIV
acetophenone		ACTIV
2-Phenyl-2-prop	panol	ACTIV
	e-1,1-diylbis(phosphonic acid)	ACTIV
I,4-naphthoquir		ACTIV
naphthalene		ACTIV
hosphorous ac	id	ACTIV
Mixed Xylenes		ACTIV
ethylbenzene		ACTIV
•	zardous Air Pollutants	
CAS: 79-10-7	acrylic acid	
CAS: 98-82-8	Cumene	
CAS: 98-86-2	acetophenone	
CAS: 130-15-4	1,4-naphthoquinone	
CAS: 91-20-3	naphthalene	
CAS: 1330-20-7	7 Mixed Xylenes	
CAS: 100-41-4	ethylbenzene	
- Propo	sition 65	
- Ch	emicals known to cause cancer:	
CAS: 98-82-8	Cumene	
CAS: 91-20-3	naphthalene	
CAS: 100-41-4	ethylbenzene	
- Ch	emicals known to cause reproductive toxicity for females:	
	redients is listed.	
- Ch	emicals known to cause reproductive toxicity for males:	
	redients is listed.	
	emicals known to cause developmental toxicity:	
	redients is listed.	
•		
	ogenic categories A (Environmental Protection Agency)	
- <i>ברי</i> CAS: 98-82-8	Cumene	D, CE
CAS: 98-86-2	acetophenone	D, 01
CAS: 90-00-2	naphthalene	C, CB
	7 Mixed Xylenes	
CAS: 1330-20-7	ethylbenzene	D
	V (Threshold Limit Value)	
CAS: 79-10-7	acrylic acid	ŀ
	naphthalene	, A
CAS: 91-20-3		ŀ
CAS: 1330-20-7	ethylbenzene	ŀ
CAS: 1330-20-7 CAS: 100-41-4		
CAS: 1330-20-7 CAS: 100-41-4 - <b>NIC</b>	OSH-Ca (National Institute for Occupational Safety and Health)	
CAS: 1330-20-7 CAS: 100-41-4 - <i>NIC</i> None of the ing	redients is listed.	
CAS: 1330-20-7 CAS: 100-41-4 - <i>NIC</i> None of the ing		
CAS: 1330-20-7 CAS: 100-41-4 - <i>NIC</i> None of the ing	redients is listed. <b>The first set of the se</b>	

- Contact: Safety, Health and Environmental Affaires

Printing date 01/23/2024

## Trade name: Vibra-TITE® Retaining Compound

Reviewed on 12/14/2023

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- HMIS-ra	ings (scale 0 - 4)
HEALTH	Health = *3
FIRE	Fire = 1
REACTIVITY	Reactivity = 0
- NFPA ra	ings (scale 0 - 4)
	Health = 3
	Fire = 1
	Reactivity = 0
$\checkmark$	Reactivity - 0
- Date of	reparation / last revision 01/23/2024
Abbrev	tions and acronyms:
	elatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods
Road)	
IMDG: Inter	tional Maritime Code for Dangerous Goods
	artment of Transportation
	onal Air Transport Association
	pean Inventory of Existing Commercial Chemical Substances
	pean List of Notified Chemical Substances
	I Abstracts Service (division of the American Chemical Society)
	Organic Compounds (USA, EU) concentration, 50 percent
	concentration, so percent lose, 50 percent
	its Bioaccumulative and Toxic
	n, biologinal and complete an
	al Institute for Occupational Safety
	ational Safety & Health
	d Limit Value
	ble Exposure Limit
	ended Exposure Limit
	uids 3: Flammable liquids – Category 3
	uids 4: Flammable liquids – Category 4
	ubstances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F
	ides - Type E: Organic peroxides – Type E/F
	- Oral 4: Acute toxicity – Category 4
	- Inhalation 3: Acute toxicity – Category 3
	n 1A: Skin corrosion/irritation – Category 1A n 1B: Skin corrosion/irritation – Category 1B
	: bi: skin corrosion/initiation – Category 16 2: Skin corrosion/initiation – Category 2
	. Sani consolimination – Category 2 : Serious eve damage/eve irritation – Category 1
	A Serious eye damage/eye initiation – Category I
	A definde sy'e damagersy'e inflation – Category 2A Skin 1: Skin sensitisation – Category 1
	Skin 18: Ski sensitisation – Category 1 Skin 18: Ski sensitisation – Category 1B
Carcinogeni	y 2: Carcinogenicity – Category 2
Specific Tar	t Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Tar	t Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
	zard 1: Aspiration hazard – Category 1

#### - Disclaimer

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