

Trade name: Vitralit® 7041 T

Version: 2 / GB

Date revised: 18.04.2017

Replaces Version: 1 / GB

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P264.1	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501.A	Dispose of waste according to applicable legislation.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** 1-Vinylhexahydro-2H-azepin-2-one;Acrylic Polymer;Diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**Chemical characterization**

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Hazardous ingredients (Regulation (EC) No. 1272/2008)**Tetrahydrofurfuryl Acrylate**

CAS No.	2399-48-6	
EINECS no.	219-268-7	
Concentration	>= 25 < 50 %	
Classification (Regulation (EC) No. 1272/2008)		
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319

1-Vinylhexahydro-2H-azepin-2-one

CAS No.	2235-00-9	
EINECS no.	218-787-6	
Registration no.	01-2119977109-27	
Concentration	>= 10 < 20 %	
Classification (Regulation (EC) No. 1272/2008)		
	Eye Irrit. 2	H319
	Acute Tox. 4	H312
	Acute Tox. 4	H302
	Skin Sens. 1B	H317
	STOT RE 1	H372
		Liver

Isobornyl acrylate

CAS No.	5888-33-5	
EINECS no.	227-561-6	
Concentration	>= 10 < 20 %	
Classification (Regulation (EC) No. 1272/2008)		
	Aquatic Chronic 2	H411
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319
	STOT SE 3	H335

N,N-dimethylacrylamide

CAS No.	2680-03-7	
EINECS no.	220-237-5	
Registration no.	01-2119971262-39	
Concentration	>= 10 < 11 %	
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Acute Tox. 3	H311
	Eye Irrit. 2	H319

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Acrylic Polymer

Concentration >= 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Skin Sens. 1 H317

Diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide

CAS No. 75980-60-8
EINECS no. 278-355-8
Registration no. 01-2119972295-29
Concentration >= 0,1 < 1 %
Classification (Regulation (EC) No. 1272/2008)
Repr. 2 H361f
Aquatic Chronic 2 H411
Skin Sens. 1 H317

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. When vapours are intensively inhaled, seek medical help immediately.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Dry powder, Foam, Carbon dioxide

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

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5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Observe the usual precautions for handling chemicals. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs.

Storage class according to TRGS 510

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

Protect from heat and direct sunlight. Keep container tightly closed and dry in a cool, well-ventilated place. Keep locked up and out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

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There are not known any further control parameters.

8.2. Exposure controls

General protective and hygiene measures

Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, Filter A

Hand protection

Chemical resistant gloves			
Use		Short-term hand contact	
Appropriate Material		nitrile	
Material thickness	>=	0,4	mm
Breakthrough time	>	480	min

Eye protection

Safety glasses with side protection shield; Face shield

Body protection

Clothing as usual in the chemical industry. Protective shoes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Remarks	not determined
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Remarks	not determined
Flash point	
Value	> 100 °C
Evaporation rate (ether = 1) :	
Remarks	not determined
Flammability (solid, gas)	
not determined	
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Vapour density	
Remarks	not determined

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Density

Value	1,1			g/cm ³
Temperature	25	°C		

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity**dynamic**

Value	10000	to	20000	mPa.s
Temperature	25	°C		

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information**Other information**

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

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ATE	2.026,80	mg/kg
	36	

Method	calculated value according to GHS (e.g see UN GHS)	
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Acute oral toxicity (Components)**1-Vinylhexahydro-2H-azepin-2-one**

Species	rat	
LD50	1860	mg/kg

1-Vinylhexahydro-2H-azepin-2-one

Species	rat	
LD50	1114	mg/kg

N,N-dimethylacrylamide

Species	rat	
LD50	316	mg/kg

N,N-dimethylacrylamide

Species	mouse	
LD50	460	mg/kg

Silicon Dioxide, Synthetic Crystalline Free

Species	rat	
LD50	> 5000	mg/kg

Acute dermal toxicity**Vitralit 7041 T**

ATE	5.144,72	mg/kg
	64	

Method	calculated value according to GHS (e.g see UN GHS)	
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Acute dermal toxicity (Components)**1-Vinylhexahydro-2H-azepin-2-one**

Species	rat	
LD50	> 2000	mg/kg

N,N-dimethylacrylamide

Species	rabbit	
LD50	519	mg/kg

Silicon Dioxide, Synthetic Crystalline Free

Species	rabbit	
LD50	> 5000	

Acute inhalational toxicity

Remarks	not determined
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Acute inhalative toxicity (Components)**1-Vinylhexahydro-2H-azepin-2-one**

Species	rat	
LC50	> 1,6	mg/l
Duration of exposure	8	h

N,N-dimethylacrylamide

Species	rat	
LC50	0,67	mg/l

Skin corrosion/irritation

Remarks	not determined
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Serious eye damage/irritation

Remarks	not determined
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Sensitization

Remarks	not determined
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Sensitization (Components)

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1-Vinylhexahydro-2H-azepin-2-one

Route of exposure	dermal
Species	mouse
evaluation	sensitizing

Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

Remarks	not determined
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Reproductive toxicity

Remarks	not determined
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Carcinogenicity

Remarks	not determined
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Specific Target Organ Toxicity (STOT)

Remarks	not determined
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Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**1-Vinylhexahydro-2H-azepin-2-one**

Species	zebra fish (Brachydanio rerio)	
LC50	318	mg/l
Duration of exposure	96	h

Silicon Dioxide, Synthetic Crystalline Free

Species	zebra fish (Brachydanio rerio)	
LC50	> 10000	mg/l
Duration of exposure	96	h
Method	OECD 203	

Daphnia toxicity (Components)**1-Vinylhexahydro-2H-azepin-2-one**

Species	Daphnia magna	
EC50	> 100	mg/l
Duration of exposure	48	h

Silicon Dioxide, Synthetic Crystalline Free

Species	Daphnia magna	
EC50	> 1000	mg/l
Duration of exposure	24	h
Method	OECD 202	

Algae toxicity (Components)**1-Vinylhexahydro-2H-azepin-2-one**

Species	Scenedesmus subspicatus	
EC50	> 100	mg/l
Duration of exposure	72	h

Bacteria toxicity (Components)

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1-Vinylhexahydro-2H-azepin-2-one

Species	activated sludge	
EC50	622	mg/l
Duration of exposure	16	h

12.2. Persistence and degradability**General information**

not determined

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

12.6. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code	08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
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Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

EWC waste code	15 01 10*	packaging containing residues of or contaminated by dangerous substances
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Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information**Land transport ADR/RID**

Non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC

VOC (EU) 0 % 0 g/l

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure:
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Department issuing safety data sheet

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.