

Trade name: Vitralit® UC 1619

Version: 5 / GB

Date revised: 25.10.2017

Replaces Version: 4 / GB

Print date: 13.02.2018

P501.A

lenses, if present and easy to do. Continue rinsing.
Dispose of waste according to applicable legislation.

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

contains ***

BADGE;Cycloaliphatic Epoxyresin;Diphenyl(4-phenylthiophenyl)sulfonium
hexafluoroantimonate

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients *****Hazardous ingredients (Regulation (EC) No. 1272/2008) *******Cycloaliphatic Epoxyresin**

CAS No. 2386-87-0
EINECS no. 219-207-4
Registration no. 01-2119846133-44
Concentration $\geq 50 < 99$ %
Classification (Regulation (EC) No. 1272/2008)
Skin Sens. 1 H317
EUH205

3-Ethyloxetane-3-methanol

CAS No. 3047-32-3
EINECS no. 221-254-0
Registration no. 01-2119953280-43
Concentration $\geq 10 < 25$ %
Classification (Regulation (EC) No. 1272/2008)
Eye Irrit. 2 H319

BADGE

CAS No. 1675-54-3
EINECS no. 216-823-5
Concentration $\geq 5 < 10$ %
Classification (Regulation (EC) No. 1272/2008)
Skin Irrit. 2 H315
Skin Sens. 1 H317
Eye Irrit. 2 H319

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315 ≥ 5
Eye Irrit. 2 H319 ≥ 5

3-Glycidyloxypropyltrimethoxysilane

CAS No. 2530-83-8
EINECS no. 219-784-2
Registration no. 01-2119513212-58
Concentration $\geq 1 < 3$ %
Classification (Regulation (EC) No. 1272/2008)
Eye Dam. 1 H318

Diphenyl(4-phenylthiophenyl)sulfonium hexafluoroantimonate

EINECS no. 403-500-0
Concentration $\geq 0,1 < 0,25$ %
Classification (Regulation (EC) No. 1272/2008)
Aquatic Chronic 1 H410
Skin Sens. 1 H317
Aquatic Acute 1 H400

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. 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.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. 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, Carbon dioxide, Foam

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.

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.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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. In case the product spills into sewage waters, immediately inform the

Trade name: Vitralit® UC 1619

Version: 5 / GB

Date revised: 25.10.2017

Replaces Version: 4 / GB

Print date: 13.02.2018

authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. 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). Keep container tightly closed. Observe the usual precautions for handling chemicals.

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.

Storage class according to TRGS 510

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Other information

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. 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

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

Trade name: Vitralit® UC 1619

Version: 5 / GB

Date revised: 25.10.2017

Replaces Version: 4 / GB

Print date: 13.02.2018

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			
Density				
Value	1,1			g/cm ³
Temperature	20		°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	3000	to	5000	mPa.s
Temperature	25		°C	
Explosive properties				
evaluation	not determined			
Oxidising properties				
Remarks	not determined			

Trade name: Vitralit® UC 1619

Version: 5 / GB

Date revised: 25.10.2017

Replaces Version: 4 / GB

Print date: 13.02.2018

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

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	9,1697	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)	

Acute oral toxicity (Components)

Silicon Dioxide, Synthetic Crystalline Free

Species	rat	
LD50	> 5000	mg/kg

Cycloaliphatic Epoxyresin

Species	Rats (male/female)	
NOAEL	5	mg/kg
Duration of exposure	90	d
Method	OECD 401	

3-Glycidyloxypropyltrimethoxysilane

Species	rat	
LD50	8025	mg/kg
Method	OECD 401	

Acute dermal toxicity

Remarks not determined

Acute dermal toxicity (Components)

Silicon Dioxide, Synthetic Crystalline Free

Species	rabbit	
LD50	> 5000	

3-Glycidyloxypropyltrimethoxysilane

Species	rabbit	
LD50	4250	mg/kg

Trade name: Vitralit® UC 1619

Version: 5 / GB

Date revised: 25.10.2017

Replaces Version: 4 / GB

Print date: 13.02.2018

Method OECD 402

Acute inhalational toxicity

Remarks not determined

Acute inhalative toxicity (Components)**3-Glycidyloxypropyltrimethoxysilane**

Species	rat		
LC50	5,3		mg/l
Administration/Form	Dust/Mist		

Skin corrosion/irritation

Remarks not determined

Serious eye damage/irritation

Remarks not determined

Sensitization

Remarks not determined

Sensitization (Components)**3-Glycidyloxypropyltrimethoxysilane**

Route of exposure	dermal
Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

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)**Silicon Dioxide, Synthetic Crystalline Free**

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

Cycloaliphatic Epoxyresin

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	24		mg/l

Trade name: Vitralit® UC 1619

Version: 5 / GB

Date revised: 25.10.2017

Replaces Version: 4 / GB

Print date: 13.02.2018

Duration of exposure 96 h

3-GlycidyloxypropyltrimethoxysilaneSpecies carp (Cyprinus carpio)
LC50 55 mg/l

Duration of exposure 96 h

Daphnia toxicity (Components)**Silicon Dioxide, Synthetic Crystalline Free**Species Daphnia magna
EC50 > 1000 mg/l
Duration of exposure 24 h
Method OECD 202**Cycloaliphatic Epoxyresin**Species Daphnia magna
EC50 > 10 to 100 mg/l
Duration of exposure 48 h**3-Glycidyloxypropyltrimethoxysilane**Species Daphnia magna
EC50 324 mg/l
Duration of exposure 48 h**Algae toxicity (Components)****Cycloaliphatic Epoxyresin**Species Selenastrum capricornutum
EC50 22 mg/l
Duration of exposure 9 h**3-Glycidyloxypropyltrimethoxysilane**Species Algae
EC50 119 mg/l
Duration of exposure 7 d**Bacteria toxicity (Components)****Cycloaliphatic Epoxyresin**Species activated sludge
EC50 > 2000 mg/l
Duration of exposure 3 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

Trade name: Vitralit® UC 1619

Version: 5 / GB

Date revised: 25.10.2017

Replaces Version: 4 / GB

Print date: 13.02.2018

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

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

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**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**

EUH205	Contains epoxy constituents. May produce an allergic reaction.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2

Trade name: Vitralit® UC 1619

Version: 5 / GB

Date revised: 25.10.2017

Replaces Version: 4 / GB

Print date: 13.02.2018

Skin Sens. 1

Skin sensitization, Category 1

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.