

Trade name: Vitralit ® 6108

Version: 2 / GB

Date revised: 18.04.2017

Replaces Version: 1 / GB

Print date: 15.08.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Vitralit ® 6108

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses

PC1 Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Panacol-Elosol GmbH
Daimlerstrasse 8
61449 Steinbach (Taunus)
Telephone no. +49 (0)6171/6202-0
Fax no. +49 (0)6171/6202-590
E-mail address of msds@panacol.de
person responsible
for this SDS

1.4. Emergency telephone number

During regular office hours +49 6171 6202 0; all other times call your local Poison Control Center.

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H335
Aquatic Chronic 2	H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements ***

P261.9	Avoid breathing vapours/spray.
P273	Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/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 or doctor.

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

contains Acrylic acid;2-Hydroxyethyl methacrylate;Maleic acid;tert-Butylperbenzoate;Diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide;Isobornyl acrylate

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)**Isobornyl acrylate**

CAS No. 5888-33-5
 EINECS no. 227-561-6
 Concentration >= 25 < 50 %
 Classification (Regulation (EC) No. 1272/2008)
 Aquatic Chronic 2 H411
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319
 STOT SE 3 H335

2-Hydroxyethyl methacrylate

CAS No. 868-77-9
 EINECS no. 212-782-2
 Registration no. 01-2119490169-29
 Concentration >= 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319
 Skin Sens. 1 H317
 Skin Irrit. 2 H315

Acrylic acid

CAS No. 79-10-7
 EINECS no. 201-177-9
 Registration no. 01-2119452449-31
 Concentration >= 5 < 6,7 %
 Classification (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400
 Flam. Liq. 3 H226
 Acute Tox. 4 H332
 Acute Tox. 4 H312
 Acute Tox. 4 H302
 Skin Corr. 1A H314
 Eye Dam. 1 H318
 Aquatic Chronic 2 H411

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

STOT SE 3 H335 >= 1

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

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DSD Directive 67/548/EEC, Annex I, Note D

tert-Butylperbenzoate

CAS No.	614-45-9
EINECS no.	210-382-2
Registration no.	01-2119513317-46
Concentration	>= 1 < 2,6 %
Classification (Regulation (EC) No. 1272/2008)	
Org. Perox. C	H242
Skin Irrit. 2	H315
Skin Sens. 1	H317
Acute Tox. 4	H332
Aquatic Acute 1	H400

Maleic acid

CAS No.	110-16-7
EINECS no.	203-742-5
Registration no.	01-2119488705-25
Concentration	>= 1 < 6,1 %
Classification (Regulation (EC) No. 1272/2008)	
Skin Sens. 1	H317
Eye Irrit. 2	H319
STOT SE 3	H335
Skin Irrit. 2	H315
Acute Tox. 4	H302

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

Skin Sens. 1 H317 >= 0,1

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. 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

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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 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.

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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**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

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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	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	800		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

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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****Vitralit 6108**

ATE	>	10.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		

Acute oral toxicity (Components)**Maleic acid**

Species	rat		
LD50		708	mg/kg

tert-Butylperbenzoate

Species	rat		
LD50		4828	mg/kg

Acrylic acid

Species	rat		
LD50	=	1500	mg/kg

Acute dermal toxicity**Vitralit 6108**

ATE	>	10.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		

Acute dermal toxicity (Components)**Maleic acid**

Species	rabbit		
LD50		1560	mg/kg

tert-Butylperbenzoate

Species	rabbit		
LD50		3817	mg/kg

Acrylic acid

Species	rabbit		
LD50	>=	2000	mg/kg

Acute inhalational toxicity**Vitralit 6108**

ATE		33,777	mg/l
Administration/Form	Vapors		
Method	calculated value according to GHS (e.g see UN GHS)		

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ATE	>	20	mg/l
Administration/Form	Dust/Mist		
Method	calculated value according to GHS (e.g see UN GHS)		

Acute inhalative toxicity (Components)**tert-Butylperbenzoate**

Species	rat		
LC50	>	1,01	mg/l
Duration of exposure	4 h		
Administration/Form	Vapors		

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Acrylic acid

Species	rat			
LC50	>=	5,1		mg/l
Duration of exposure		4	h	
Administration/Form	Vapors			

Skin corrosion/irritation

Remarks not determined

Serious eye damage/irritation

Remarks not determined

Sensitization

Remarks not determined

Sensitization (Components)**Maleic acid**

Route of exposure	dermal
Species	guinea pig
evaluation	sensitizing

Acrylic acid

evaluation non-sensitizing

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)**Maleic acid**

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	75		mg/l
Duration of exposure	96	h	

tert-Butylperbenzoate

Species	zebra fish (Brachydanio rerio)		
LC50	1,6		mg/l
Duration of exposure	96	h	

Acrylic acid

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	= 27		mg/l

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Duration of exposure 96 h

Daphnia toxicity (Components)**Maleic acid**

Species	Daphnia magna		
EC50	42,81		mg/l
Duration of exposure	48	h	

tert-Butylperbenzoate

Species	Daphnia magna		
EC50	11		mg/l
Duration of exposure	24	h	

Acrylic acid

Species	Daphnia magna		
EC50	= 47	to 95	mg/l
Duration of exposure	48	h	

Algae toxicity (Components)**Maleic acid**

Species	Algae		
ErC50	74,35		mg/l
Duration of exposure	72	h	

tert-Butylperbenzoate

Species	Algae		
EC50	0,8		mg/l
Duration of exposure	72	h	

Acrylic acid

Species	Scenedesmus subspicatus		
ErC50	= 0,13		mg/l
Duration of exposure	72	h	

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Maleic acid**

Value	97		%
Duration of test evaluation	28	d	

Readily biodegradable (according to OECD criteria)

Chemical oxygen demand (COD) (Components)**Acrylic acid**

Value	= 1,48		kg/kg
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Biochemical oxygen demand (BOD5) (Components)**Acrylic acid**

Value	= 0,31		kg/kg
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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

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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

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 ***

14.1. UN number

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate, Acrylic acid)

14.3. Transport hazard class(es)

Class 9

Label



9

14.4. Packing group

Packing group III

Remarks The product is not subject to any other provisions of ADR provided
packaging of not more than 5 l / 5 kg (SP 375)

Limited Quantity 5 l

Transport category 3

Tunnel restriction code E

Marine transport IMDG/GGVSee ***

14.1. UN number

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate, Acrylic acid)

14.3. Transport hazard class(es)

Class 9

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**14.4. Packing group**Packing group
Remarks

III

The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg. F-A, S-F

EmS

Air transport ICAO/IATA *****14.1. UN number**

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate, Acrylic acid)

14.3. Transport hazard class(es)

Class

9

**14.4. Packing group**Packing group
Remarks

III

The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)

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**

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1

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Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Org. Perox. C	Organic peroxide, Type C
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, 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.