

Trade name: Vitralit ® 4731

Version: 6 / GB

Date revised: 12.11.2019

Replaces Version: 5 / GB

Print date: 20.06.2020

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

1.1. Product identifier

Vitralit ® 4731

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/Supplier

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)

Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 1B	H360Df
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 ***

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H335	May cause respiratory irritation.

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H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261.9 Avoid breathing vapours/spray.
 P273 Avoid release to the environment.
 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; Isobornyl acrylate; Diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide;
 Tetrahydrofurfuryl Acrylate

Supplemental information**Further supplemental information**

Restricted to professional users

2.3. Other hazards

No special hazards have to be mentioned.

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

Vitralit 4731

Hazardous ingredients *****Tetrahydrofurfuryl Acrylate**

CAS No.	2399-48-6	
EINECS no.	219-268-7	
Registration no.	01-2120738396-46	
Concentration	>= 25 < 50 %	
Classification (Regulation (EC) No. 1272/2008)		
	Aquatic Chronic 2	H411
	Eye Dam. 1	H318
	Skin Sens. 1	H317
	Repr. 1B	H360Df
	Skin Corr. 1C	H314
	Acute Tox. 4	H302

Isobornyl acrylate

CAS No.	5888-33-5	
EINECS no.	227-561-6	
Registration no.	01-2119957862-25	
Concentration	>= 10 < 20 %	
Classification (Regulation (EC) No. 1272/2008)		
	Aquatic Acute 1	H400
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319
	STOT SE 3	H335
	Skin Sens. 1B	H317
	Aquatic Chronic 1	H410

Acrylic acid

CAS No.	79-10-7	
EINECS no.	201-177-9	
Registration no.	01-2119452449-31	
Concentration	>= 3 < 5 %	

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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
STOT SE 3	H335

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

STOT SE 3 H335 $\geq 1\%$

Additional remarks:

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

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

Diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide

CAS No. 75980-60-8

EINECS no. 278-355-8

Registration no. 01-2119972295-29

Concentration $\geq 0,1 < 1\%$

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.

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.

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Storage classes

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**

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

In case of insufficient ventilation, wear suitable respiratory equipment. 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) :	

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Remarks not determined

Flammability (solid, gas)

Remarks 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	1000		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.

10.5. Incompatible materials

None known

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10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity****Vitralit 4731**

ATE	1.049,02	mg/kg
	44	

Method calculated value according to GHS (e.g see UN GHS)

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

Species	rat	
LD50	= 1500	mg/kg

Acute dermal toxicity**Vitralit 4731**

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

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

Species	rabbit	
LD50	>= 2000	mg/kg

Acute inhalational toxicity**Vitralit 4731**

ATE	> 100	mg/l
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Administration/Form Vapors
Method calculated value according to GHS (e.g see UN GHS)**Vitralit 4731**

ATE	> 20	mg/l
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Administration/Form Dust/Mist
Method calculated value according to GHS (e.g see UN GHS)**Acute inhalative toxicity (Components)****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)**Acrylic acid**

evaluation non-sensitizing

Subacute, subchronic, chronic toxicity

Remarks not determined

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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)**Acrylic acid**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)			
LC50	=	27		mg/l
Duration of exposure		96	h	

Daphnia toxicity (Components)**Acrylic acid**

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

Algae toxicity (Components)**Acrylic acid**

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

12.2. Persistence and degradability**General information**

not determined

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

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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

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 ***







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	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	-		
EmS		F-A, S-F	
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrahydrofurfuryl Acrylate, Acrylic acid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrahydrofurfuryl Acrylate, Acrylic acid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetrahydrofurfuryl Acrylate, Acrylic acid)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	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)	The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.	The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

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

Other information

All components are contained in the IECSC inventory.

All components are contained in the ECL inventory.

15.2. Chemical safety assessment

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

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SECTION 16: Other information

Hazard statements listed in Chapter 3

H226	Flammable liquid and vapour.
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.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
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
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
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.