

Trade name: WIDOCRYL-Topsiegel PM

Current version : 3.1.0, issued: 07.03.2018

Replaced version: 3.0.0, issued: 10.08.2015

Region: GB

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

1.1 Product identifier

Trade name

WIDOCRYL-Topsiegel PM

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

Relevant identified uses of the substance or mixture
sealing

Uses advised against
No data available.

1.3 Details of the supplier of the safety data sheet

Address

Widopan Produkte GmbH
Ostereichen 3
D-21714 Hammah

Telephone no. +49 (0) 4144 69821-0
Fax no. +49 (0) 4144 69821-20

Information provided by / telephone
+49 (0) 4144 69821-0

Advice on Safety Data Sheet
sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Flam. Liq. 2; H225
Skin Irrit. 2; H315
Skin Sens. 1; H317
Skin Sens. 1B; H317
STOT SE 3; H335

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS02



GHS07

Signal word

Danger

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Hazardous component(s) to be indicated on label:

methyl-methacrylate
2-ethylhexyl acrylate
2,2'-ethylenedioxydiethyl dimethacrylate

Hazard statement(s)

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Hazard statements (EU)

EUH208 Contains 2-(2H-benzotriazol-2-yl)-p-cresol. May produce an allergic reaction.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours/spray.
P312 Call a POISON CENTER/doctor if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P370+P378 In case of fire: Use water spray, carbon dioxide, dry chemical or foam to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Methyl methacrylate-based reactive resin

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	methyl-methacrylate			
	80-62-6 201-297-1 607-035-00-6 01-2119452498-28	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	>= 50.00 - < 70.00	%-b.w.
2	2-ethylhexyl acrylate			
	103-11-7 203-080-7 607-107-00-7 01-2119453158-37	Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	>= 10.00 - < 25.00	%-b.w.
3	2,2'-ethylenedioxydiethyl dimethacrylate			
	109-16-0 203-652-6 - 01-2119969287-21	Skin Sens. 1B; H317	< 2.50	%-b.w.
4	2-(2H-benzotriazol-2-yl)-p-cresol			
	2440-22-4 219-470-5 - -	Aquatic Chronic 4; H413 Skin Sens. 1; H317	< 2.50	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

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No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	D	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

Remove with a cloth or paper. Wash off with soap and water. Don't use solvents. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Do not induce vomiting. Call a doctor immediately. Rinse mouth thoroughly with water. Drink water in small gulps. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam; Extinguishing powder; Water spray jet; Carbon dioxide

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Use barrier skin cream. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep in a cool place, heat causes increase in pressure and risk of bursting.

Recommended storage temperature

Value 5 - 25 °C

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one. Fill containers only up to 80%, because oxygen (air) is necessary for stabilization.

Advice on storage assembly

Do not store together with fire promoting substances. Do not store together with foodstuffs.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
List of approved workplace exposure limits (WELs) / EH40			
Methyl methacrylate			
	STEL	416	mg/m ³ 100 ml/m ³
	TWA	208	mg/m ³ 50 ml/m ³
2009/161/EU			
methyl methacrylate			
	STEL		100 ppm
	TWA		50 ppm

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DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	methyl-methacrylate			80-62-6 201-297-1	
	dermal	Short term (acut)	local	1.5	mg/cm ²
	dermal	Long term (chronic)	systemic	13.67	mg/kg
	dermal	Long term (chronic)	local	1.5	mg/cm ²
	inhalative	Long term (chronic)	systemic	208	mg/m ³
	inhalative	Long term (chronic)	local	208	mg/m ³
2	2-ethylhexyl acrylate			103-11-7 203-080-7	
	dermal	Short term (acut)	local	0.242	mg/cm ²
	inhalative	Short term (acut)	local	37.5	mg/m ³
	inhalative	Long term (chronic)	local	37.5	mg/m ³
3	2,2'-ethylenedioxydiethyl dimethacrylate			109-16-0 203-652-6	
	inhalative	Long term (chronic)	systemic	48,5	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	methyl-methacrylate			80-62-6 201-297-1	
	dermal	Short term (acut)	local	1.5	mg/cm ²
	dermal	Long term (chronic)	systemic	8.2	mg/kg
	dermal	Long term (chronic)	local	1.5	mg/cm ²
	inhalative	Long term (chronic)	systemic	74.3	mg/m ³
	inhalative	Long term (chronic)	local	104	mg/m ³
2	2-ethylhexyl acrylate			103-11-7 203-080-7	
	dermal	Short term (acut)	local	0.242	mg/cm ²
	inhalative	Short term (acut)	local	4.5	mg/m ³
	inhalative	Long term (chronic)	local	4.5	mg/m ³
3	2,2'-ethylenedioxydiethyl dimethacrylate			109-16-0 203-652-6	
	oral	Long term (chronic)	systemic	8,33	mg/kg
	dermal	Long term (chronic)	systemic	8,33	mg/kg
	inhalative	Long term (chronic)	systemic	14,5	mg/m ³

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PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	methyl-methacrylate		80-62-6 201-297-1
	water	fresh water	0.94 mg/l
	water	marine water	0.94 mg/l
	water	Aqua intermittent	0.94 mg/l
	water	fresh water sediment	5.74 mg/kg
	soil	-	1.47 mg/kg
	sewage treatment plant	-	10 mg/l
2	2-ethylhexyl acrylate		103-11-7 203-080-7
	water	fresh water	0.00272 mg/l
	water	marine water	0.00027 mg/l
	water	fresh water sediment	0.126 mg/kg
	soil	-	1 mg/kg
	sewage treatment plant	-	2.3 mg/l
3	2,2'-ethylenedioxydiethyl dimethacrylate		109-16-0 203-652-6
	water	fresh water	0,164 mg/l
	water	marine water	0,0164 mg/l
	water	Aqua intermittent	0,164 mg/l
	water	fresh water sediment	1,85 mg/kg
	water	marine water sediment	0,185 mg/kg
	soil	-	0,274 mg/kg
	sewage treatment plant	-	10 mg/l

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respiratory filter (gas) : A

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

Breakthrough time > 60 min

Other

fire-resistant protective clothing

Environmental exposure controls

No data available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
color pigmented	
Odour	
of acrylate	
Odour threshold	
Value	0.05 ppm
Reference substance	Methyl methacrylate
pH value	
No data available	
Boiling point / boiling range	
Value	101 °C
Method	DIN 51751
Reference substance	Methyl methacrylate
Melting point / melting range	
Value	-48 °C
Reference substance	Methyl methacrylate
Decomposition point / decomposition range	
No data available	
Flash point	
Value	12 °C
Method	DIN 51755
Reference substance	Methyl methacrylate
Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
Value	2.1 % vol
Reference substance	Methyl methacrylate
Upper flammability or explosive limits	
Value	12.5 % vol
Reference substance	Methyl methacrylate
Vapour pressure	
Value	38.7 mbar
Reference substance	Methyl methacrylate

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Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value	1.10	g/cm ³	
Reference temperature	25	°C	
Method	DIN 53217		
Solubility in water			
Remarks	insoluble		
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No data available			
Viscosity			
Value	190 - 270	mPa*s	
Reference temperature	25	°C	
Method	DIN 53018		

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable if stored and handled properly.

10.3 Possibility of hazardous reactions

Polymerization upon exposure to white light, ultraviolet light or heat. Polymerization is highly exothermic and may produce sufficient heat to cause thermal decomposition and/or rupture of the container.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from light.

10.5 Incompatible materials

Peroxides; Amines; Heavy metals; Oxidizing agents; Reducing agents

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity			
No	Product Name		
1	WIDOCRYL-Topsiegel PM		
LD50	>	5000	mg/kg
Species	rat		
Reference substance	Methyl methacrylate		
Source	Literature value		

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Acute dermal toxicity			
No	Product Name		
1	WIDOCRYL-Topsiegel PM		
LD50	>	5000	mg/kg
Species	rabbit		
Reference substance	Methyl methacrylate		

Acute inhalational toxicity			
No	Product Name		
1	WIDOCRYL-Topsiegel PM		
LC50		3750	ppm
Species	rat		
Reference substance	Methyl methacrylate		
Source	Literature value		

Skin corrosion/irritation	
No	Product Name
1	WIDOCRYL-Topsiegel PM
Evaluation	irritant

Serious eye damage/irritation	
No data available	

Respiratory or skin sensitisation	
No	Product Name
1	WIDOCRYL-Topsiegel PM
Route of exposure	Skin
Evaluation	sensitizing

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Inhalation of vapours may lead to headache, drowsiness and dizziness. Irritating effects on the skin and mucous membrane. Irritating to eyes. Irritates respiratory tract. Possibility of sensitisation through skin contact.	

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Product Name		
1	WIDOCRYL-Topsiegel PM		
LC50	243	- 275	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Reference substance	Methyl methacrylate		

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Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)	
No	Product Name
1	WIDOCRYL-Topsiegel PM
EC50	69 mg/l
Duration of exposure	48 h
Species	Daphnia magna
Reference substance	Methyl methacrylate
Method	OECD 202

Toxicity to Daphnia (chronic)	
No data available	

Toxicity to algae (acute)	
No	Product Name
1	WIDOCRYL-Topsiegel PM
EC50	170 - 170 mg/l
Duration of exposure	96 h
Species	Pseudokirchneriella subcapitata
Reference substance	Methyl methacrylate
Method	OECD 201

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

Biodegradability	
No	Product Name
1	WIDOCRYL-Topsiegel PM
Value	%
Evaluation	Moderately/partially biodegradable

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information	
Do not discharge product unmonitored into the environment.	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1866
Proper shipping name	RESIN SOLUTION
Special Provision 640	640C
Tunnel restriction code	D/E
Label	3

14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1866
Proper shipping name	RESIN SOLUTION
EmS	F-E, S-E
Label	3

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
UN number	UN1866
Proper shipping name	Resin solution
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	P5b
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15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H413 May cause long lasting harmful effects to aquatic life.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

D Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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