

# Data sheet

## Drycoat Finish Color

### Colored sealant finish

#### PRODUCT

Two-component, UV-stabilized, pigmented, fast-reacting sealant based on poly-methylmethacrylate (PMMA).

#### USAGES

Drycoat Finish Color viene utilizzato come sigillatura non pigmentata su sistemi Drycoat in PMMA sabbati e non sabbati per aumentare la resistenza chimica e meccanica.

#### ADVANTAGES

- > Polymerises and becomes resistant in a short time
- > Transparent with opaque appearance
- > Solvent-free
- > Resists UV rays

#### PREPARATION OF THE SUBSTRATE

The substrates to be sealed must be solid, dry, free of components that are detaching or that reduce adhesion. During execution, the surface temperature must be at least 3 ° C above the dew point. At lower temperatures, a film of moisture with a non-stick action may form on the surface to be processed.

#### MIXING

After mixing the base resin well, add the relative quantity of catalyst, mixing slowly with a stirrer and taking care not to form lumps. Mixing time at least 2 min.

#### PLACEMENT

Drycoat Finish Color can be processed at ambient and substrate temperatures of at least 0 ° C up to max. +35 ° C. In closed environments, mandatory ventilation must be provided with at least 7 air changes per hour. Evenly apply Drycoat Finish Color in a criss-cross direction with a universal roller. Consumption at least 0.50 kg / m<sup>2</sup>. Rain resistant after about 30 minutes, passable after about 2 hours.



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#### PACKAGING

Goods in a bucket  
Summer / winter regulation

10,00 kg / 10,00 kg    Drycoat Finish Color  
0,20 kg / 0,60 kg     Drycoat Catalyst

#### STORAGE

Fresh, dry, frost-free, unopened and unmixed about 6 months. Direct solar radiation on packages should be avoided, even on construction sites.

#### RESISTANCE TO CHEMICAL AGENTS

Ethyl acetate --	Diesel ++
Acetone -	Ethanol 10% ++
Acetic acid 10% ++ *	Vegetable fats ++
Hydrochloric acid 10% ++ *	Potassium hydroxide 10% ++ *
Sulfuric acid 10% ++ *	Castor oil ++
Water ++	Engine oil ++
Sea water ++	Sodium chloride solution ++
Ammonia 10% ++ *	Caustic soda solution 10% ++ *
Petrol ±	Orange juice ++
Coffee ++	Turpentine ±
Sanitary detergents ++ *	Red wine ± *
Dishwashing detergent ++	Xylene -

#### Note:

- ++ = resistant
- ± = limited resistance (approx. 24 hours)
- = not resistant
- \* = possible color change

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#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 PRODUCT IDENTIFIER	Commercial Product Name:	Drycoat Finish Color
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST	Relevant identified uses	Sealing
	Recommended restrictions	Reserved for industrial and professional users
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	Company:	Drytech International SA via Industrie 12 CH-6930 Bedano TI SVIZZERA
	T	+41 (0)91 960 23 49
	@	info@drytechinternational.com
1.4 EMERGENCY TELEPHONE NUMBER	Switzerland: 145 From abroad: +41 44 251 51	

#### 2. HAZARDS IDENTIFICATION

2.1 SUBSTANCE OR MIXTURE CLASSIFICATION	Classification according to Regulation (EC) No. 1272/2008	Flam. Liq. 2; H225
		Skin Irrit. 2; H315
		Skin sens. 1A; H317
		STOT SE 3; H335

2.2. Label elements	Hazard pictogram		
		GHS02	GHS07

Signal word	Danger
Hazardous component(s) to be indicated on label *:	Methyl methacrylate, 2-ethylhexyl acrylate, 2,2'-ethylenedioxydiethyl dimethacrylate, Fatty acids, C14-18 and C16-18-unsatd., maleated, maleic anhydride
H-statement(s):	H225: Highly flammable liquid and vapour. H315: Causes skin irritation. H317: May cause an allergic skin reaction.

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*P-statement(s):*

H335: May cause respiratory irritation.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection..

P312: Call a POISON CENTER/doctor if you feel unwell.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures Chemical characterization Mixture with reactive acrylates

#### Hazardous ingredients

Ingredient	Classification (EC) 1272/2008			Concentration
METHYL METHACRYLATE	CAS-Nr.: EG-Nr.: Index-Nr.: REACH-Nr.:	80-62-6 201-297-1 607-035-00-6 01-2119452498-28-XXXX	Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	30.0 - 35.0 % by weight
2-ETHYLHEXYL ACRYLATE	CAS-Nr.: EG-Nr.: Index-Nr.: REACH-Nr.:	103-11-7 203-080-7 607-107-00-7 01-2119453158-37-XXXX	Skin Irrit. 2; H315 Skin Sens.1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412	15.0 - 20.0 % by weight
ALIPHATIC URETHANACRYLATE			Skin Irrit. 2; H315 Eye Irrit. 2; H319	1.0 - 5.0 % by weight
2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE	No. CAS: No. CE: No. REACH:	109-16-0 203-652-6 01-2119969287-21-XXXX	Skin Sens. 1; H317	0.1 - 1.0 % by weight

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<b>FATTY ACIDS, C14-18 AND C16-18-UNSATD., MALEATED</b>	No. CAS: No. CE: No. REACH:	85711-46-2 701-043-4 01-2119976378-19-XXXX	Skin Irrit. 2; H315 Skin Sens. 1; H317	0.1 - 1.0 % by weight
<b>1,1'-(P-TOLYLIMINO) DIPROPAN-2-OL</b>	CAS-Nr.: EG-Nr.: REACH-Nr.:	38668-48-3 254-075-1 01-2119980937-17-XXXX	Acute Tox. 2; H300 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	0.1 - 1.0 % by weight
<b>MALEIC ANHYDRIDE</b>	No. CAS: No. CE: No. INDICE: No. REACH:	108-31-6 203-571-6 607-096-00-9 01-2119472428-31-XXXX	Acute Tox. 4; H302 STOT RE 1; H372 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317	0.0015 - 0.01 % by weight

### 4. FIRST AID MEASURES

<b>4.1 DESCRIPTION OF FIRST AID MEASURES</b>	<i>General advice:</i>	Move out of dangerous area. Take off all contaminated clothing immediately. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.
	<i>Inhalation:</i>	Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
	<i>Skin:</i>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation occurs, get medical advice/attention.
	<i>Eyes</i>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	<i>Ingestion:</i>	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.
<b>4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED</b>	<i>Immediate medical attention</i>	Treat symptomatically.

### 5. FIREFIGHTING MEASURES

<b>5.1 EXTINGUISHING MEDIA</b>	<i>Suitable extinguishing media</i>	Carbon dioxide (CO <sub>2</sub> ), Foam, Water spray, Dry powder
	<i>Extinguishing media which must not be used for safety reasons:</i>	High volume water jet

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5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	<i>Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases</i>	Violent polymerization may be caused by: Extremes of temperature and direct sunlight. Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.
5.3 ADVICE FOR FIREFIGHTERS	<i>Special protective equipment for firefighting:</i>  <i>Additional information on firefighting</i>	In the event of fire, wear self-contained breathing apparatus.  Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses.
<b>6. ACCIDENTAL RELEASE MEASURES</b>		
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	<i>Personal precautions:</i>	Ensure adequate ventilation. Vapours are heavier than air and may spread along floors. Use personal protective equipment.
6.2 ENVIRONMENTAL PRECAUTIONS		Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP	<i>Methods for cleaning up:</i>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated surface thoroughly. Treat recovered material as described in the section "Disposal considerations".
6.4 REFERENCE TO OTHER SECTIONS	<i>Reference to other sections</i>	Disposal considerations See also section 13
6.5 ADDITIONAL INFORMATION		Treat recovered material as described in the section "Disposal considerations".
<b>7. HANDLING AND STORAGE</b>		

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7.1 PRECAUTIONS FOR SAFE HANDLING	<i>Advice on safe handling:</i>	Processing may lead to evolution of flammable volatiles. In case of insufficient ventilation, wear suitable respiratory equipment. Keep product and empty container away from heat and sources of ignition. Handle and open container with care. Avoid contact with skin and eyes.
	<i>Precautions:</i>	Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Observe label precautions.
	<i>Advice on protection against fire and explosion:</i>	Take precautionary measures against static discharges. Vapours may form explosive mixture with air. Use water spray to cool unopened containers.
7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	<i>Storage space and container requirements</i>	Store in accordance with the particular national regulations. Keep in a cool, wellventilated place. Keep in properly labelled containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
	TRGS 510	3
	<i>Storage specifications:</i>	Keep in a dry, cool place.

### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS

##### METHYL METHACRYLATE

###### Switzerland

Long-term exposure value / ppm	Long-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Notations	Critical toxicity	Measuring method	Source
50	210	100	420	S SSC	polmone occhio OAW	INRS NIOSH	26

26: SUVA Switzerland 2017

###### Europe

Long-term exposure value / ppm	Short-term exposure value / ppm	Issuing date	Source
50	100	2009/161	24

24: DIRECTIVE 2009/161/EU

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<i>DNEL</i>	<i>Target group</i>	<i>Exposure via</i>	<i>Exposure frequency</i>	<i>Source</i>
210 mg/m <sup>3</sup>	Workers	Inhalation	Local long term effects	100
210 mg/m <sup>3</sup>	Workers	Inhalation	Systemic long term effects	100
1,5 mg/cm <sup>2</sup>	Workers	Skin	Local long term effects	100
13,67 mg/kg	Workers	Skin	Systemic long term effects	100
105 mg/m <sup>3</sup>	Consumers	Inhalation	Local long term effects	100
74,3 mg/m <sup>3</sup>	Consumers	Inhalation	Systemic long term effects	100
1,5 mg/cm <sup>2</sup>	Consumers	Skin	Local long term effects	100
8,2 mg/kg	Consumers	Skin	Systemic long term effects	100
1,5 mg/cm <sup>2</sup>	Consumers	Skin	Local long term effects	100

100: Company data

<i>PNEC</i>	<i>Exposure via</i>	<i>Source</i>
0,94 mg/l	Freshwater	100
0,094 mg/l	Marine water	100
5,74 mg/l	Sediment	100
1,47 mg/kg	Soil	100

100: Company data

### 2-ethylhexyl acrylate

#### Switzerland

<i>Long-term exposure value / ppm</i>	<i>Long-term exposure value / mg/m<sup>3</sup></i>	<i>Short-term exposure value / ppm</i>	<i>Short-term exposure value / mg/m<sup>3</sup></i>	<i>Notations</i>	<i>Critical toxicity</i>	<i>Remarks</i>	<i>Source</i>
5	38	5	38	S SSC	OAW	† 1) (see 1.10.3)	26

26: SUVA Switzerland 2017

\* 1): The substance can be present as vapor and aerosol at the same time.

<i>DNEL</i>	<i>Target group</i>	<i>Exposure via</i>	<i>Exposure frequency</i>	<i>Source</i>
37,5 mg/m <sup>3</sup>	Workers	Inhalation	Local long term effects	100
0,242 mg/m <sup>3</sup>	Workers	Skin	Local long term effects	100
0,242 mg/cm <sup>2</sup>	Workers	Skin	Local long term effects	100
4,5 mg/m <sup>3</sup>	Consumers	Inhalation	Local long term effects	100

100: Company data

<i>PNEC</i>	<i>Exposure via</i>	<i>Source</i>
0,002752 mg/l	Freshwater	100
0,000272 mg/l	Marine water	100
2,3 mg/l	wastewater treatment plant	100
0,126 mg/kg	Freshwater sediment	100
0,126 mg/kg	Marine sediment	100
1,0 mg/kg	Soil	100
0,0023 mg/kg	Intermittent release	100



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#### 2,2'-ethylenedioxydiethyl dimethacrylate

<i>DNEL</i>	<i>Target group</i>	<i>Exposure via</i>	<i>Exposure frequency</i>	<i>Source</i>
48,5 mg/m <sup>3</sup>	Workers	Inhalation	Systemic long term effects	100
13,9 mg/kg	Workers	Skin	Systemic long term effects	100
14,5 mg/m <sup>3</sup>	Consumers	Inhalation	Systemic long term effects	100
8,33 mg/kg	Consumers	Skin	Systemic long term effects	100
8,33 mg/kg	Consumers	Oral	Systemic long term effects	100

100: Company data

<i>PNEC</i>	<i>Exposure via</i>	<i>Source</i>
0,164 mg/l	Freshwater	100
0,274 mg/kg	Soil	100
0,185 mg/kg	Marine sediment	100
1,85 mg/kg	Freshwater sediment	100
10 mg/l	Waste water treatment	100
0,164 mg/l	intermittent releases	100
0,00164 mg/l	Marine water	100

100: Company data

#### 1,1'-(p-Tolylimino)dipropan-2-ol

<i>DNEL</i>	<i>Target group</i>	<i>Exposure via</i>	<i>Exposure frequency</i>	<i>Source</i>
2 mg/m <sup>3</sup> 100	Workers	Inhalation	Long term effects	100
0,6 mg/kg	Workers	Skin	Long term effects	100

100: Company data

<i>PNEC</i>	<i>Exposure via</i>	<i>Source</i>
199,5 mg/l	Waste water treatment	100
0,0072 mg/kg	Marine water	100
0,017 mg/l	Freshwater	100

100: Company data

#### MALEIC ANHYDRIDE

##### Switzerland

<i>Long-term exposure value / ppm</i>	<i>Long-term exposure value / mg/m<sup>3</sup></i>	<i>Short-term exposure value / ppm</i>	<i>Short-term exposure value / mg/m<sup>3</sup></i>	<i>Notations</i>	<i>Critical toxicity</i>	<i>tipo di misurazione</i>	<i>Remarks</i>	<i>Source</i>

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0,1	0,4	0,1	0,4	S SSC	AW	NIOSH OS-HA	† 1) (see 1.10.3)	26
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26: SUVA Switzerland 2017

† 1): Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen.

DNEL	Target group	Exposure via	Exposure frequency	Source
0,4 mg/m <sup>3</sup>	Workers	Inhalation	Local long term effects systemic	100
0,04 mg/m <sup>3</sup>	Workers	Skin	Short-term effects	100

PNEC	Exposure via	Source
0,04281 mg/l	Freshwater	100
0,004281 mg/l	Marine water	100
0,04281 mg/l	Intermittent release	100
0,0415 mg/l	Soil	100
0,0334 mg/kg	Freshwater sediment	100
0,0334 mg/kg	Marine sediment	100
44,6 mg/l	Waste water treatment	100

## 8.2 EXPOSURE CONTROLS

### Respiratory protection

Vapour during processing may be irritating to the respiratory tract and to the eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### Remarks:

Recommended Filter type: A1, A2 (in case of higher concentration).

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

### Hand protection

Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

#### Unsuitable material:

Woven fabric, Leather gloves.

#### Suitable material:

Nitriles

#### Material thickness:

0.38 mm

#### Break through time:

< 25 min

### Eye protection:

Tightly fitting safety goggles

### Skin and body protection:

Wear suitable protective equipment. Long sleeved clothing

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<i>General protective and hygiene measures:</i>	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.
<i>Engineering measures</i>	Ensure adequate ventilation, especially in confined areas. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES	<i>Physical state</i>	Liquid
	<i>Form</i>	Liquid
	<i>Color</i>	---
	<i>Odour</i>	Smell of Methylmethacrylate
	<i>pH</i>	Not applicable
	<i>Remarks</i>	(non-aqueous)
	<i>Melting point [°C] / Freezing point [°C]</i>	Not determined
	<i>Boiling point [°C]</i>	> 100 °C
	<i>Flash point [°C]</i>	10 °C
	<i>Evaporation rate [kg/(s*m<sup>2</sup>)]</i>	Not determined
	<i>Explosion limits [Vol-%]</i>	The product itself has not been tested. Methyl methacrylate
	<i>Lower limit</i>	1,7 vol. %
	<i>Upper limit</i>	12,5 vol. % 2-ethylhexyl acrylate
	<i>Lower limit</i>	0,9 vol. %
	<i>Upper limit</i>	6,4 vol. %
	<i>Vapour pressure [kPa]</i>	Not determined
	<i>Vapour density</i>	Not determined
	<i>Density [g/cm<sup>3</sup>]</i>	Not determined
	<i>Temperature</i>	20 °C
	<i>Water solubility [g/l]</i>	
<i>Remarks:</i>	Insoluble	
<i>Distribution coefficient (n-octanol / water) (log P O/W)</i>	Not determined	
<i>Explosive properties</i>	In use, may form flammable/explosive vapour-air mixture.	

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	<i>Oxidising properties</i>	Not relevant
9.2. OTHER INFORMATION	<i>Autoignition temperature [°C]</i>	Not determined
	<i>Flow time [s]</i>	22 sec
	<i>Temperature:</i>	20 °C
	<i>Measuring method:</i>	DIN cup 6 mm

### 10. STABILITY AND REACTIVITY

10.3 POSSIBILITY OF HAZARDOUS REACTIONS		The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution. Risk of receptacle bursting.
10.4 CONDITIONS TO AVOID		Extremes of temperature and direct sunlight.
10.5 INCOMPATIBLE MATERIALS	<i>Materials to avoid:</i>	Reacts violently with peroxides. Reducing agents, Strong bases, Amines, Oxidizing agents.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 TOXICOLOGICAL INFORMATION

##### ORAL TOXICITY

##### Hazardous ingredients

##### Methyl methacrylate

Value	Test criterion	Test species	Measuring method	Source
>5001 mg/kg	DL50	Rat	OECD TG 401	100

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##### 2-ethylhexyl acrylate

Value	Test criterion	Test species	Source
4435 mg/kg	DL50	Rat	100

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<i>aliphatic urethanacrylate</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
>2001 mg/kg	DL50	Rat	100

100: Company data

<i>2,2'-ethylenedioxydiethyl dimethacrylate</i>				
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Remarks</i>	<i>Source</i>
10066 mg/kg	DL50	Rat	† 1)	100

100: Company data † 1): Information given is based on data on the components and the toxicology of similar products.

<i>Fatty acids, C14-18 and C16-18-unsatd., maleated</i>				
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Remarks</i>	<i>Source</i>
>2001 mg/kg	DL50	Rat	OECD TG 423	100

100: Company data

<i>1,1'-(p-Tolylimino)dipropan-2-ol</i>				
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Measuring method</i>	<i>Source</i>
26 mg/kg	DL50	Rat	OECD TG 423	100

100: Company data

<i>Maleic anhydride</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
1090 mg/kg	LC50	Rat	100

100: Company data

### DERMAL TOXICITY [MG/KG]

#### Hazardous ingredients

<i>Methyl methacrylate</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
>5001 mg/kg	DL50	Rabbit	100

100: Company data

<i>2-ethylhexyl acrylate</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
7522 mg/kg	DL50	Rabbit	100

100: Company data

<i>2,2'-ethylenedioxydiethyl dimethacrylate</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
>2001 mg/kg	DL50	Mouse	100

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<i>1,1'-(p-Tolylimino)dipropen-2-ol</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
2001 mg/kg	DL50	Rat	100

100: Company data

<i>Maleic anhydride</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
2620 mg/kg	LC50	Guinea pig	100

100: Company data

#### INHALATIVE TOXICITY [MG/L]

##### Hazardous ingredients

<i>2-ethylhexyl acrylate</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
1,19 mg/l		Rat	100

100: Company data

#### LC50 INHALATION 4H FOR VAPORS [mg/l]

##### Hazardous ingredients

<i>Methyl methacrylate</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
29,8 mg/l	LC50	Rat	100

100: Company data

#### LC50 INHALATION 1H PER POLVERI E NEBBIE [mg/l]

##### Hazardous ingredients

<i>Maleic anhydride</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
2620 mg/l	DL50	Rabbit	100

100: Company data

#### IRRITANT EFFECT ON SKIN

##### Hazardous ingredients

<i>Methyl methacrylate</i>			
<i>Value</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
Irritating		Rabbit	100

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<i>2-ethylhexyl acrylate</i>			
<i>Value</i>	<i>Test species</i>	<i>Exposure duration</i>	<i>Source</i>
Skin irritation	Rabbit	4 h	100

100: Company data

<i>Aliphatic urethanacrylate</i>	
<i>Value</i>	<i>Source</i>
May cause skin irritation.	100

100: Company data

<i>2,2'-ethylenedioxydiethyl dimethacrylate</i>	
<i>Value</i>	<i>Source</i>
No skin irritation	100

100: Company data

#### Fatty acids, C14-18 and C16-18-unsatd., maleated

<i>Value</i>	<i>Measuring method</i>	<i>Source</i>
No eye irritation	OECD TG 439 Skin irritation	100

100: Company data

<i>1,1'-(p-Tolylimino)dipropan-2-ol</i>	
<i>Value</i>	<i>Source</i>
No skin irritation	100

100: Company data

<i>Maleic anhydride</i>	
<i>Value</i>	<i>Source</i>
Acute dermal irritation/corrosion	100

100: Company data

#### IRRITANT EFFECT ON EYES

##### Hazardous ingredients

<i>Methyl methacrylate</i>		
<i>Value</i>	<i>Test species</i>	<i>Source</i>
Irritant	Rabbit	100

100: Company data

<i>2-ethylhexyl acrylate</i>			
<i>Value</i>	<i>Measuring method</i>	<i>Test species</i>	<i>Source</i>
Slightly Irritating	OECD TG 405	Rabbit	100

100: Company data

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### Colored sealant finish

<i>Aliphatic urethanacrylate</i>		
<i>Value</i>		<i>Source</i>
Causes serious eye irritation		100

100: Company data

<i>2,2'-ethylenedioxydiethyl dimethacrylate</i>		
<i>Value</i>		<i>Source</i>
No eye irritation		100

100: Company data

<i>Fatty acids, C14-18 and C16-18-unsatd., maleated</i>		
<i>Value</i>	<i>Measuring method</i>	<i>Source</i>
No eye irritation	OECD TG 405	100

100: Company data

<i>1,1'-(p-Tolylimino)dipropan-2-ol</i>		
<i>Value</i>		<i>Source</i>
Irritant		100

100: Company data

### SENSITIZATION

#### Hazardous ingredients

<i>Methyl methacrylate</i>		
<i>Value</i>	<i>Test species</i>	<i>Source</i>
Skin sensitizing	Mouse	100

100: Company data

<i>2-ethylhexyl acrylate</i>		
<i>Value</i>		<i>Source</i>
Skin sensitizing		100

100: Company data

<i>2,2'-ethylenedioxydiethyl dimethacrylate</i>		
<i>Value</i>		<i>Source</i>
Skin sensitizing		100

100: Company data

<i>Fatty acids, C14-18 and C16-18-unsatd., maleated</i>		
<i>Value</i>	<i>Measuring method</i>	<i>Source</i>
No eye irritation	OECD TG 405	100



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1,1'-(p-Tolylimino)dipropan-2-ol	
Value	Source
Irritant	100

100: Company data

maleic anhydride		
Value	Measuring method	Source
Skin sensitizing	OECD TG 406	100

100: Company data

### CARCINOGENIC EFFECTS

#### Hazardous ingredients

Methyl methacrylate		
Value	Test species	Source
Not a carcinogen	Rat, Mouse	100

100: Company data

2-ethylhexyl acrylate	
Value	Source
No known effect	100

100: Company data

2,2'-ethylenedioxydiethyl dimethacrylate	
Value	Source
No known effect	100

100: Company data

### MUTAGENICITY

#### Hazardous ingredients

Methyl methacrylate	
Value	Source
Not mutagenic	100

100: Company data

2-ethylhexyl acrylate	
Value	Source
No known effect	100

100: Company data

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2,2'-ethylenedioxydiethyl dimethacrylate	
Value	Source
No known effect	100

100: Company data

Fatty acids, C14-18 and C16-18-unsatd., maleated		
Value	Measuring method	Source
Negative	OECD 471, OECD 473, OECD 476	100

100: Company data

1,1'-(p-Tolylimino)dipropan-2-ol	
Value	Source
Negative	100

100: Company data

### REPRODUCTION TOXICITY

#### Hazardous ingredients

Methyl methacrylate	
Value	Source
Not toxic to reproduction	100

100: Company data

2-ethylhexyl acrylate	
Value	Source
No known effect	100

100: Company data

2,2'-ethylenedioxydiethyl dimethacrylate	
Value	Source
No known effect	100

100: Company data

### SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [mg/kg]

#### Hazardous ingredients

Methyl methacrylate	
Value	Source
Causes respiratory tract irritation	100

100: Company data

2-ethylhexyl acrylate	
Value	Source
Causes respiratory tract irritation	100

100: Company data

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#### SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [mg/kg]

##### Hazardous ingredients

##### Methyl methacrylate

Value	Source
No known effect	100

100: Company data

##### 2-ethylhexyl acrylate

Value	Source
No known effect	100

100: Company data

##### 2,2'-ethylenedioxydiethyl dimethacrylate

Value	Source
No known effect	100

100: Company data

#### 11.2 ADDITIONAL INFORMATION

##### Experience in practice:

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to eyes, respiratory system and skin. Irritating to mucous membranes.

### 12. ECOLOGICAL INFORMATION

#### 12.1 TOXICITY

##### Hazardous ingredients

#### TOXICITY TO FISH [mg/l]

##### Hazardous ingredients

##### Methyl methacrylate

Value	Test	Test species	Measuring method	Exposure duration	Source
191 mg/l	LC50	Oncorhynchus mykiss (Rainbow trout)	OECD TG 203	96 h	100

100: Company data

##### 2-ethylhexyl acrylate

Value	Test	Test species	Measuring method	Exposure duration	Source
1,81 mg/l	LC50	Oncorhynchus mykiss (Rainbow trout)	OECD TG 203	96 h	100

100: Company data

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2,2'-ethylenedioxydiethyl dimethacrylate					
Value	Test	Test species	Measuring method	Exposure duration	Source
16,4 mg/l	LC50	Brachydanio rerio (Zebra fish)	OECD TG 203	96 h	100

100: Company data

Fatty acids, C14-18 and C16-18-unsatd., maleated					
Value	Test	Test species	Measuring method	Exposure duration	Source
>150 mg/l	LC50	Leuciscus idus (Golden orfe)	DIN 38412	48 h	100

100: Company data

1,1'-(p-Tolyimino)dipropan-2-ol					
Value	Test	Test species	Exposure duration	Source	
17 mg/l	LC50	Brachydanio rerio (Zebra fish)	96 h	100	

100: Company data

Maleic anhydride		
Value	Test criterion	Source
75 mg/l	LC50	100

100: Company data

### TOXICITY TO DAPHNIA [mg/l]

#### Hazardous ingredients

Methyl methacrylate					
Value	Test	Test species	Measuring method	Exposure duration	Source
69 mg/l	EC50	Daphnia magna (Water flea)	OECD TG 202	48 h	100

100: Company data

2-ethylhexyl acrylate					
Value	Test	Test species	Measuring method	Exposure duration	Source
1,3 mg/l	EC50	Daphnia magna (Water flea)	OECD TG 202	48 h	100

100: Company data

Aliphatic urethanacrylate			
Value	Criteria di Test	Test species	Source
>100 mg/l	LC50	Daphnia magna (Water flea)	100

100: Company data

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2,2'-ethylenedioxydiethyl dimethacrylate				
Value	Test	Test species	Exposure duration	Source
30,2 mg/l	LC50	Daphnia magna (Water flea)	21 days	100

100: Company data

Fatty acids, C14-18 and C16-18-unsatd., maleated					
Value	Test	Test species	Measuring method	Exposure duration	Source
>101 mg/l	EC50	Daphnia magna (Water flea)	OECD TG 202	48 h	100

100: Company data

1,1'-(p-Tolylimino)dipropan-2-ol				
Value	Test	Test species	Exposure duration	Source
28,8 mg/l	EC50	Daphnia magna (Water flea)	18 h	100

100: Company data

Maleic anhydride		
Value	Test criterion	Source
77 mg/l	EC50	100

100: Company data

### TOXICITY TO ALGAE [mg/l]

#### Hazardous ingredients

Methyl methacrylate					
Value	Test	Test species	Measuring method	Exposure duration	Source
>100 mg/l	EC50	Selenastrum capricornutum (green algae)	OECD TG 201	72 h	100

100: Company data

2-ethylhexyl acrylate					
Value	Test	Test species	Measuring method	Exposure duration	Source
1,71 mg/l	CE50r	Desmodesmus subspicatus	OECD TG 201	72 h	100

100: Company data

2,2'-ethylenedioxydiethyl dimethacrylate					
Value	Test	Test species	Measuring method	Exposure duration	Source
>101 mg/l	EC50	Pseudokirchneriella subcapitata	OECD TG 201	72 h	100

100: Company data

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<i>Fatty acids, C14-18 and C16-18-unsatd., maleated</i>					
<i>Value</i>	<i>Test</i>	<i>Test species</i>	<i>Measuring method</i>	<i>Exposure duration</i>	<i>Source</i>
>101 mg/l	CE50r	Pseudokirchneriella subcapitata	OECD TG 201	72 h	100

100: Company data

<i>1,1'-(p-Tolyimino)dipropan-2-ol</i>					
<i>Value</i>	<i>Test</i>	<i>Test species</i>	<i>Exposure duration</i>	<i>Source</i>	
245 mg/l	EC50	Desmodesmus subspicatus	27 h	100	

100: Company data

<i>Maleic anhydride</i>		
<i>Value</i>	<i>Test criterion</i>	<i>Source</i>
150 mg/l	EC50	100

100: Company data

#### NOEC (FISH) [mg/l]

#### Hazardous ingredients

<i>Methyl methacrylate</i>			
<i>Value</i>	<i>Test species</i>	<i>Exposure duration</i>	<i>Source</i>
9,4 mg/l	Brachydanio rerio (Zebra fish)	OECD Test Guideline 210	100

100: Company data

#### NOEC (DAPHNIA) [mg/l]

#### Hazardous ingredients

<i>Methyl methacrylate</i>			
<i>Value</i>	<i>Test species</i>	<i>Exposure duration</i>	<i>Source</i>
37 mg/l	Daphnia magna (Water flea)	OECD Test 202	100

100: Company data

#### NOEC (ALGAE) [mg/l]

#### Hazardous ingredients

<i>2-ethylhexyl acrylate</i>			
<i>Value</i>	<i>Test species</i>	<i>Exposure duration</i>	<i>Source</i>
0,45 mg/l	Desmodesmus subspicatus	OECD Test 201	100

100: Company data

### Colored sealant finish

#### 12.2 PERSISTENCE AND DEGRADABILITY

<i>Methyl methacrylate</i>		
<i>Value</i>	<i>Method of analysis</i>	<i>Source</i>
Readily biodegradable	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	100

100: Company data

<i>2-ethylhexyl acrylate</i>	
<i>Value</i>	<i>Source</i>
Readily biodegradable.	100

100: Company data

<i>2,2'-ethylenedioxydiethyl dimethacrylate</i>	
<i>Value</i>	<i>Source</i>
Readily biodegradable.	100

100: Company data

<i>Fatty acids, C14-18 and C16-18-unsatd., maleated</i>	
<i>Value</i>	<i>Source</i>
Not readily biodegradable.	100

100: Company data

<i>1,1'-(p-Tolylimino)dipropan-2-ol</i>	
<i>Value</i>	<i>Source</i>
Hardly biodegradable	100

100: Company data

<i>Maleic anhydride</i>		
<i>Value</i>	<i>Measuring method</i>	<i>Source</i>
Readily biodegradable	OECD 301	100

100: Company data

#### 12.3 BIOACCUMULATIVE POTENTIAL

<i>Methyl methacrylate</i>	
<i>Value</i>	<i>Source</i>
Does not bioaccumulate	100

100: Company data

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2-ethylhexyl acrylate	
Value	Source
Bioaccumulation slight, log Pow 4,64	100

100: Company data

2,2'-ethylenedioxydiethyl dimethacrylate	
Value	Source
Slight	100

100: Company data

1,1'-(p-Tolylimino)dipropan-2-ol	
Value	Source
No data available	100

100: Company data

### 12.4 MOBILITY IN SOIL

#### MOBILITY

#### Hazardous ingredients

Methyl methacrylate	
Mobility	Source
Terrestrial Compartment Not relevant	100

100: Company data

### 12.5 RESULTS OF PBT AND VPVB ASSESSMENT

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

### 12.6 OTHER ADVERSE EFFECTS

#### Further information on ecology

We have no quantitative data concerning the ecological effects of this product.

## 13 DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

#### Disposal considerations:

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:

#### Waste Code:

08 01 11\*waste paint and varnish containing organic solvents or other dangerous substances



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#### Waste Code (CH)




Als Sonderabfall entsorgen.  
08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances

#### Uncleaned empty packaging:

The return of packaging materials is regulated by the Interseroh system.

#### 14. TRANSPORT INFORMATION

Land transport ADR/RID    Marine transport IMDG    Air transport ICAO/IATA

14.1 UN-NO	1263	1263	1263
14.2 DESCRIPTION OF THE GOODS	PAINT	PAINT	PAINT
UN PROPER SHIPPING NAME		PAINT	PAINT
14.3 TRANSPORT HAZARD CLASS(ES)	3	3	3
14.4 PACKAGING GROUP	III	III	III
Labels	3 	3 	3 - Flammable liquid 
Risk No.	30		
Category	3		
Factor	1		
Classification Code	F1		
SP 640	640E		
Tunnel restriction code	D/E		
EMS no		F-E;_S-E	
Stowage category		A	

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

Not relevant

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#### 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	<i>Additional regulations:</i>	Additionally, observe any national regulations! Denmark PR-No.2394753 Denmark MAL-Code-Number 5-5
	<i>Water Hazard Class (Ger.)</i>	1
	<i>Classification in compliance with the Industrial Safety Regulation</i>	Highly flammable
	<i>GISCODE</i>	RMA10
	<i>MAL-Code</i>	5-5
	<i>Water Hazard Class (Ger.)</i>	Article 13 Maternity ordinance and Safety Ordinance (SR 822.111.52) Expectant and nursing mothers are not permitted to come into contact with this product during the course of their work. However, if a risk assessment establishes that there is no specific risk to the health of mothers or their children or that any such risk can be excluded by taking suitable protective measures, mothers may work with this product (substance/preparation) (Art. 63 Ordinance 1 to the Employment Act; SR 822.111). Article 4 paragraph 1 to, Article 4 paragraph 4 of the Youth Employment Protection Ordinance (SR 822.115) and Article 1 lit. f of the EAER Ordinance on Hazardous Work for Young People (SR 822.115.2): Young people undergoing basic vocational training may only work with this product (substance/preparation) if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not undergoing any basic vocational training are not permitted to work with this product (substance/preparation). Young people with a Federal vocational education and training (VET) Certificate or a Federal VET Diploma may carry out hazardous work with this product (substance/preparation) within the profession they have learned. Male and female employees who are under 18 years old are classed as young people.

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#### 16. OTHER INFORMATION

##### Relevant H-phrases

H225: Highly flammable liquid and vapour.  
 H300: Fatal if swallowed.  
 H302: Harmful if swallowed.  
 H314: Causes severe skin burns and eye damage.  
 H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335: May cause respiratory irritation.  
 H372: Causes damage to organs through prolonged or repeated exposure.  
 H412: Harmful to aquatic life with long lasting effects.

##### Wording of the hazard classes

Flam. Liq.: Flammable liquid  
 STOT SE: Specific target organ toxicity - single exposure  
 Skin Irrit.: Skin irritation  
 Skin Sens.: Skin sensitization  
 Aquatic Chronic: Hazardous to the aquatic environment  
 Eye Irrit.: Serious eye irritation  
 Acute Tox.: Acute toxicity  
 STOT RE: Specific target organ toxicity - repeated exposure  
 Eye Dam.: Serious eye damage

*Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]*

##### Classification

Flam. Liq. 2; H225

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT SE 3; H335

##### Evaluation

Calculated

Calculated

Calculated

Calculated

##### Department issuing safety data sheet:

Environmental Department

##### Recommended restrictions:

Reserved for industrial and professional use.

*This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.*