

Quick-setting stucco

PRODUCT

Fast-reacting putty based on polymethylmethacrylate (PMMA) resin.

USAGES

It is used to level the roughness, such as the overlaps of the non-woven fabric or the hollows, under the Drycoat systems.

PREPARATION OF THE
SUBSTRATE

The pre-treated substrates and with primer applied must be solid, dry, free of components that are flaking off or that reduce adhesion. It must be ensured that there is no penetration of moisture on the back side of the cladding due to the architectural conditions. Adherence to the substrate must be verified in the individual case in the building.

During execution, the surface temperature must be at least + 3 ° C above the dew point. At lower temperatures, a moisture film with 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.

Mixing ratio (on 15 kg of base resin):

from ±0 ° C to +25 ° C = 0,90 kg of catalyst

from +25 ° C to +35 ° C = 0,60 kg of catalyst

PLACEMENT

Drycoat Spachtel / Stucco 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.

Workability time (at +20 ° C): about 15 min.

Drying time (at +20 ° C): can be walked on after about 1 hour.



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CONSUMPTION

Approximately 1.40 kg / m² per mm of layer thickness.

STORAGE

Keep in a cool, dry, frost-free place. The unopened and unmixed product lasts about 6 months. Direct solar radiation on packages should be avoided, even on site.

Safety data sheet

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

1.1 PRODUCT IDENTIFIER	Commercial Product Name:	Drycoat Stucco
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST	Relevant identified uses	Fine spatula
	Recommended restrictions:	Reserved for industrial and professional use.
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. 1	H317
		STOT SE 3	H335

2.2. LABEL ELEMENTS	Hazard pictogram		
		GHS02	GHS07

Signal word	Danger
Hazardous component (s) to report on the label:	methyl methacrylate, 2-ethylhexyl acrylate, C18-unsaturated fatty acids, dimers, reaction products with N, N-dimethyl-1,3-propanediamine and 1,3-propanediamine, 2,2-ethylen-dioxyethyl dimethacrylate
H-statement(s):	H225: Highly flammable liquid and vapour.

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P-statement(s):

H315: Causes skin irritation..

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

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

P261: Avoid breathing vapors.

P264: Wash your hands thoroughly after use.

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

Plasticized methyl methacrylate resin

DANGEROUS INGREDIENTS

Contained substance	No. CAS		Classification 1272/2008/EG	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	20.0 - 25.0 % 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	10.0 - 15.0 % by weight
ALIPHATIC URETHANA-CRYLATE			Skin Irrit. 2; H315 Eye Irrit. 2; H319	5.0 - 10.0 % by weight

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<i>C18-unsaturated fatty acids, dimeri, reaction products with N, N-dimethyl- 1,3-propanediamine 1,3-propanediamine</i>	CAS-Nr.: EG-Nr.: REACH-Nr.:	162627-17-0 605-296-0 01-2119970640-38-XXXX	Skin Sens. 1; H317	1.0 - 5.0 % by weight
<i>1,1`-(p-Tolylimino) dipropan-2-olo</i>	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
<i>2,2'-etilen dioxidietil dimetacrilato</i>	CAS-Nr.: EG-Nr.: REACH-Nr.:	109-16-0 203-652-6 01-2119969287-21-XXXX	Skin Irrit. 1; H317	0.1 - 1.0 % by weight

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	<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 your mouth. DO NOT induce vomiting. Call a doctor immediately.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	<i>Immediate medical attention</i>	Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA	<i>Suitable extinguishing media:</i>	Carbon dioxide (CO ₂), Foam, Water spray, Dry powder
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	<i>Extinguishing media which must not be used for safety reasons:</i>	High volume water jet.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	<i>Specific exposure risks that emanate 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>	In the event of fire, wear self-contained breathing apparatus
	<i>Additional information on firefighting</i>	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.
6. ACCIDENTAL RELEASE MEASURES		
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	<i>Personal precautions:</i>	Provide adequate ventilation. The vapors are heavier than air and spread across the soil. Use personal protective equipment.
6.2 ENVIRONMENTAL PRECAUTIONS	<i>Environmental precautions:</i>	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".

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7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING	Advice on safe handling:	Processing can cause the exhalation of flammable volatile products. Wear protective masks in case of insufficient ventilation. Keep the product and empty containers away from heat sources and sources of ignition. Open and handle the container with care. Avoid contact with skin and eyes.
	Precautions:	Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Observe label precautions.
	Advice on protection against fire and explosion:	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	Storage space and container requirements	Storage must be carried out in agreement with BetrSichV (Germany). Keep in a cool, well-ventilated place. Keep in properly labeled containers. Close open containers carefully and store them in an upright position to avoid spillage.
	TRGS 510	3
	Storage specifications:	Tenere in un luogo fresco e asciutto.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

METHYL METHACRYLATE

Switzerland

Long-term value /ppm	Long-term value /mg/m ³	Short-term value /ppm	Short-term exposure value/ mg/m ³	Notations	Critical toxicity	Measuring method	Source
50	210	100	420	S SSC	Lung eye OAW	INRS NIOSH	26

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Italia

Long-term exposure value / ppm	Short-term exposure value / ppm	Source
50	100	75

Source: 75 - Definition of a first list of indicative occupational exposure limit values for chemical agents 2009

Europe

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

Source: 24 - DIRECTIVE 2009/161 / EU

DNEL

Value	Target group	Exposure via	Exposure frequency	Source
210 mg/m ³	Workers	Inhalation	Long term effects Local	100
210 mg/m ³	Workers	Inhalation	Long term effects systemic	100
1,5 mg/cm ²	Workers	Skin	Long term effects Local	100
13,67 mg/kg	Workers	Skin	Long term effects systemic	100
105 mg/m ³	Consumers	Inhalation	Long term effects Local	100
74,3 mg/m ³	Consumers	Inhalation	Long term effects systemic	100
1,5 mg/cm ²	Consumers	Skin	Long term effects Local	100
8,2 mg/kg	Consumers	Skin	Long term effects systemic	100
1,5 mg/cm ²	Consumers	Skin	Long term effects Local	100

Source: 100 - Company data

PNEC		
Value	Exposure via	Source
0,94 mg/l	Freshwater	100
0,094 mg/l	Sea water	100
5,74 mg/kg	Sediment	100
1,47 mg/kg	Soil	100

Source: 100 - Company data

2-ETHYLESYL ACRYLATE

DNEL

Long-term value /ppm	Long-term value /mg/m ³	Short-term value /ppm	Short-term exposure value/ mg/m ³	Notations	Critical toxicity	Measuring method	Source
5	38	5	38	S SSC	OAW	† 1) (see 1.10.3)	26

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

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Value	Target group	Exposure via	Exposure frequency	Source
37,5 mg/m ³	Workers	Inhalation	Long term effects Local	100
0,242 mg/m ²	Workers	Skin	Long term effects Local	100
0,242 mg/m ²	Workers	Skin	Short-term effects Local	100
4,5 mg/m ³	Consumers	inhalation	Long term effects Local	100

Source: 100 - Company data

PNEC	Value	Exposure via	Source
	0,002752 mg/l	Freshwater	100
	0,000272 mg/l	Sea water	100
	2,3 mg/l	Impianto di trattamento delle acque reflue	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	Rilasci intermittenti	100

Source: 100 - Company data

2,2'-ETILEN DIOXIDIETIL DIMETACRILATO

DNEL

Value	Target group	Exposure via	Exposure frequency	Source
48,5 mg/m ³	Workers	Inhalation	Long term effects locale	100
13,9 mg/kg	Workers	Skin	Long term effects locale	100
14,5 mg/m ³	Workers	Skin	Short-term effects locale	100
8,33 mg/kg	Consumers	Inhalation	Long term effects locale	100
8,33 mg/kg	Consumers	Oral	Long term effects locale	100

Source: 100 - Company data

PNEC

Value	Exposure via	Source
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	Rilasci intermittenti	100
0,00164 mg/l	Sea water	100

Source: 100 - Company data

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1,1'-(P-TOLYLIMINO)DIPRO-
PAN-2-OLO

DNEL

Value	Target group	Exposure via	Frequency of exposure	Source
2 mg/m ³	Workers	Inhalation	Long term effects	100
0,6 mg/kg	Workers	Skin	Long term effects	100

Source: 100 - Company data

PNEC

Value	Exposure via	Source
199,5	Waste water treatment	100
0,0072 mg/kg	Marine water	100
0,017 mg/l	Freshwater	100

Source: 100 - Company data

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.

Suitable material:

Nitriles

Unsuitable material:

Woven fabric, Leather gloves.

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

General protective and hygiene measures

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.

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Engineering measures

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>	Grey
<i>Odour</i>	Smell of Methylmethacrylate
<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*m²)]</i>	Not determined
<i>Explosion limits [Vol-%]</i>	The product itself has not been tested. methyl methacrylate
<i>Limite inferiore</i>	1,7 vol. %
<i>Limite superiore</i>	12,5 vol. % 2-ethylhexyl acrylate
<i>Limite inferiore</i>	0,9 vol. %
<i>Limite superiore</i>	6,4 Vol-%
<i>Vapour pressure [kPa]</i>	Not determined
<i>Vapour density [kPa]</i>	Not determined
<i>Density [g/cm³]</i>	1,38 g/cm ³
<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>Viscosità dinamica [kg/(m*s)]</i>	50.000 mPas*s
<i>Temperature:</i>	20 °C
<i>Measuring method:</i>	Viscosimetro Haake
<i>Explosive properties</i>	Not relevant
<i>Oxidising properties</i>	Not relevant

9.2. OTHER INFORMATION

<i>Autoignition temperature [°C]</i>	280 °C
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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

Materials to avoid:

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

2-ethylhexyl acrylate	Value	Test criterion	Test species	Source
	>2001 mg/kg	DL50	Rat	100

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

C18 fatty acids non-dimeric reaction products with N, N-dimethyl-1, 3-propanediamine and 1,3-propanediamine	Value	Test criterion	Test species	Measuring method	Source
	>10000 mg/kg	DL50	Rat	OECD TG 401	100

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

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

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

SKIN TOXICITY

Hazardous ingredients

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

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

1,1'-(p-Tolylimino)dipropan-2-ol	Value	Test criterion	Test species	Source
	7522 mg/kg	DL50	Rat	100

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

INHALATION TOXICITY

Hazardous ingredients

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

LC50 INHALATION 4H FOR VAPORS	Value	Test criterion	Test species	Source
	29,8 mg/l	LC50	Rat	100

SKIN IRRITATION

Hazardous ingredients

Methyl methacrylate	Value	Test species	Source
	Irritant	Rabbit	100

2-ethylhexyl acrylate	Value	Test species	Exposure duration	Source
	Irritant	Rabbit	4h	100

Aliphatic urethanacrylate	Value	Source
	May cause skin irritation	100

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<i>C18 fatty acids non-dimeric reaction products with N, N-dimethyl-1, 3-propanediamine and 1,3-propanediamine</i>	<i>Value</i>	<i>tipo di misurazione</i>	<i>Test species</i>	<i>Source</i>
	No skin irritation	OECD TG 404	Rabbit	100

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

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

IRRITANT EFFECT ON EYES

Hazardous ingredients

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

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

<i>Aliphatic urethanacrylate</i>	<i>Value</i>	<i>Source</i>
	Provoca gravi irritazioni oculari	100

<i>C18 fatty acids non-dimeric reaction products with N, N-dimethyl-1, 3-propanediamine and 1,3-propanediamine</i>	<i>Value</i>	<i>Measuring method</i>	<i>Test species</i>	<i>Source</i>
	Nessuna irritazione	OECD TG 405	Rabbit	100

<i>2,2'-ethylenedioxydiethyl dimethacrylate</i>	<i>Value</i>	<i>Source</i>
	Nessuna irritazione	100

SENSITIZATION

Hazardous ingredients

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

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

<i>C18 fatty acids non-dimeric reaction products with N, N-dimethyl-1, 3-propanediamine and 1,3-propanediamine</i>	<i>Value</i>	<i>Test species</i>	<i>Source</i>
	Skin sensitizing	OECD 429	100

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	Value	Source
1,1`-(p-Tolylimino)dipropan-2-ol	No sensitization reactions were observed	100

CARCINOGENIC EFFECTS

Hazardous ingredients

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

2-ethylhexyl acrylate	Value		Source
	No known effect		100

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

MUTAGENICITY

Hazardous ingredients

Methyl methacrylate	Value	Source
	Not mutagenic	100

2-ethylhexyl acrylate	Value	Source
	No known effect	100

C18 fatty acids non-dimeric reaction products with N, N-dimethyl-1, 3-propanediamine and 1,3-propanediamine	Value	Measuring method	Source
	Negative	Test di ames OECD 471	100

1,1`-(p-Tolylimino)dipropan-2-ol	Value	Source
	No sensitization reactions were observed	100

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

REPRODUCTIVE TOXICITY

Hazardous ingredients

Methyl methacrylate	Varole	Source
	Not toxic to reproduction	100

2-ethylhexyl acrylate	Varole	Source
	No known effect	100

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

SPECIFIC TARGET ORGAN
TOXICITY (SINGLE EXPOSURE) [MG/KG]

HAZARDOUS INGREDIENTS

Hazardous ingredients

Methyl methacrylate	Varole	Source
	Causes respiratory tract irritation.	100

2-ethylhexyl acrylate	Varole	Source
	Causes respiratory tract irritation.	100

SPECIFIC TARGET ORGAN
TOXICITY (REPEATED EXPOSURE) [MG/KG]

HAZARDOUS INGREDIENTS

Hazardous ingredients

Methyl methacrylate	Varole	Source
	No known effect	100

2-ethylhexyl acrylate	Varole	Source
	No known effect	100

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

11.2 ADDITIONAL INFORMATION Experience in practice

Symptoms of overexposure can be headache, dizziness, fatigue, nausea and vomiting. Irritant for eyes, respiratory tract and skin.
Irritant for mucous membranes.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY Hazardous ingredients

TOXICITY TO FISH

Hazardous ingredients

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Methyl methacrylate	Value	Test	Test species	Exposure duration	Kind of measurement	Source
		EC50	Daphnia magna (Water flea)	48 h	OECD TG 202	100

2-ethylhexyl acrylate	Value	Test	Test species	Exposure duration	Kind of measurement	Source
		EC50	Selenastrum capricornutum (green algae)	72 h	OECD TG 201	100

C18 fatty acids non-dimeric reaction products with N, N-dimethyl-1, 3-propanediamine and 1,3-propanediamine	Value	Test	Test species	Measuring method	Source
	>150 mg/l	LC50	Leuciscus idus (Golden orfe)	DIN 38412	100

1,1'-(P-TOLYLIMINO) DIPROPAN-2-OL	Value	Test	Test species	Duration of exposure	Source
	17 mg/l	LC50	Brachydanio rerio (Zebra fish)	96 h	100

2,2'-ETHYLENEDIOXY-DIETHYL DIMETHACRYLATE	Value	Test	Test species	Measuring method	Duration of exposure	Source
	16,4 mg/l	LC50	Brachydanio rerio (Zebra fish)	OECD TG 203	96 h	100

TOXICITY FOR DAPHNIA

Hazardous ingredients

Methyl methacrylate	Value	Test	Test species	Measuring method	Duration of exposure	Source
	69 mg/l	EC50	Daphnia magna (Large water flea)	OECD TG 202	48 h	100

2-ethylhexyl acrylate	Value	Test	Test species	Measuring method	Duration of exposure	Source
	1,3 mg/l	EC50	Daphnia magna (Large water flea)	OECD TG 202	48 h	100

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

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Value	Test	Test species	Measuring method	Duration of exposure	Source
>101 mg/l	EC50	Daphnia magna (Large water flea)	OECD TG 202	48 h	100

1,1`-(p-Tolylimino)dipropan-2-ol	Value	Test	Test species	Duration of exposure	Source
	28,8 mg/l	EC50	Daphnia magna (Large water flea)	48 h	100
2,2'-ethylenedioxydiethyl dimethacrylate	Value	Test	Test species	Duration of exposure	Source
	30,2 mg/l	EC50	Daphnia magna (Large water flea)	21 days	100

TOXICITY TO ALGAE

Hazardous ingredients

Methyl methacrylate	Value	Test	Test species	Measuring method	Duration of exposure	Source
	>110 mg/l	EC50	Selenastrum capricornutum (green algae)	OECD TG 201	72 h	100

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

C18 fatty acids non-dimeric reaction products with N, N-dimethyl-1, 3-propanediamine and 1,3-propanediamine	Value	Test	Test species	Measuring method	Duration of exposure	Source
	>101 mg/l	CE50r	Pseudokirchneriella subcapitata	OECD TG 201	72 h	100

1,1`-(p-Tolylimino)dipropan-2-ol	Value	Test	Test species	Durata dell'esposizione	Source
	245 mg/l	EC50	Desmodesmus subspicatus	27 h	100

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

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NOEC (Fish)

Hazardous ingredients

Methyl methacrylate	Value	Test species	Measuring method	Source
	9,4 mg/l	Brachydanio rerio (Zebra fish)	OECD TG 210	100

NOEC (Daphnia)

Hazardous ingredients

Methyl methacrylate	Value	Test species	Measuring method	Source
	37 mg/l	Daphnia magna (Water flea)	OECD TG 202	100

NOEC (Seaweed)

Hazardous ingredients

Methyl methacrylate	Value	Test species	Measuring method	Source
	0,45 mg/l	Desmodesmus subspicatus	OECD TG 201	100

12.2 PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY

Hazardous ingredients

Methyl methacrylate	Value	Source
	Readily biodegradable	100

2-ethylhexyl acrylate	Value	Source
	Readily biodegradable	100

C18 fatty acids non-dimeric reaction products with N, N-dimethyl-1, 3-propanediamine and 1,3-propanediamine	Value	Measuring method	Source
	Not readily biodegradable.	OECD 301	100

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

2,2'-ethylenedioxydiethyl dimethacrylate	Value	Source
	Readily biodegradable.	100

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12.3 BIOACCUMULATION POTENTIAL

BIOACCUMULATION

Hazardous ingredients

Methyl methacrylate	Value	Source
	Does not bioaccumulate	100

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

1,1'-(p-Tolyimino)dipropan-2-ol	Value	Source
	no data available	100

2,2'-ethylenedioxydiethyl dimethacrylate	Value	Source
	Slight	100

12.4 MOBILITY IN SOIL

Hazardous ingredients

Methyl methacrylate	Mobility	Source
	Soil compartment not relevant	100

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

This preparation does not contain substances considered to be persistent, bioaccumulating or toxic (PBT).

12.6. OTHER EFFECTS ADVERSE

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

13. CONSIDERATIONS ON DISPOSAL

13.1 WASTE TREATMENT METHODS

Disposal considerations:

According to the European waste catalog, waste codes are not specific to the product, but specific to the placement. The waste codes indicated below are only suggestions:

Waste Code:

08 01 11* waste paints and varnishes containing organic solvents or other dangerous substances

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Waste Code CH:

08 01 12: Dispose of as hazardous waste. 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	PITTURE	PITTURE	PITTURE
14.3 TRANSPORT HAZARD CLASS(ES)	3	3	3
14.4 PACKAGING GROUP	III	III	III
Labels	3 	3 	3 
	Road transport ADR / RID	IMDG maritime transport	ICAO / IATA air transport
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>	Denmark PR-No.2400404 Furthermore, national laws must be considered!
	<i>Water Hazard Class (Ger.)</i>	1
	<i>Classification in compliance with the Industrial Safety Regulation</i>	Highly flammable
	<i>Classification in compliance with the Industrial Safety Regulation</i>	Highly flammable
	<i>GISCODE</i>	RMA10
	<i>MAL-Code</i>	4-5
	<i>Water Hazard Class (Ger.)</i>	Article 13 Maternity Protection Ordinance (SR 822.111.52): In the context of their work, pregnant women and nursing mothers may not come into contact with this product (this substance / this preparation). If, on the basis of a risk assessment, there are no concrete threats to the health of the mother and child or if these threats can be remedied by means of appropriate protective measures can work with this product (this substance / this preparation) (art.63 OLL 1; RS 822.111). Article 4 paragraphs 1 to 4 of the ordinance on the protection of young workers (OLL 5, RS 822.115); article 1 lett. f of the EAER Ordinance on Dangerous Jobs for Young People (SR 822.115.2): Young people undergoing basic vocational training are only allowed to work with this product (this substance / this preparation) if this is provided for in the respective ordinances on training to achieve the training objectives and whether the conditions of the training plan and the applicable age restrictions are met. Young people who do not undergo basic vocational training cannot use this product (this substance / this preparation). Young people with a certificate of practical training (CFP) or a federal certificate of ability (AFC) can carry out dangerous jobs with this product (this substance / this preparation) within the framework of the learned profession. Workers of both sexes up to the age of 18 are considered young.

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16. OTHER INFORMATION

Modifications since last version

Modifications of the previous version are denoted with an asterisk (*).

Relevant H-phrases

H225: Highly flammable liquids and vapors.
 H300: Fatal if ingested.
 H315: Causes skin irritation.
 H317: It can cause a reaction allergic skin.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H412: Harmful to aquatic organisms 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 awareness raising
 Aquatic Chronic: Dangerous for the aquatic environment
 Eye Irrit.: Eye irritation
 Acute Tox.: Acute toxicity

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

Classification

Evaluation

Flam. Liq. 2; H225

calculated

Skin Irrit. 2; H315

calculated

Skin Sens. 1; H317

calculated

STOT SE 3; H335

calculated

Department issuing safety data sheet:

Environmental Department

Recommended restrictions:

Reserved for industrial and professional use.

The data is based on today's level of our knowledge and experience.

The safety instruction sheet describes products with regards to safety requirements.

The data does not have the meaning of certain insurance features.