

ACRYLIC PPRIMER MAXI FILLER 5:1

SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification

ACRYLIC PPRIMER MAXI FILLER 5:1

UFI: 4C01-POVR-U00Y-8TF2

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

Recommended use: Paints and varnishes. Car repair. Only for professional user.

Uses advised against: Each type of use not mentioned above or in section 7.3 of MSDS.

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

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42-240 Rudniki k. Częstochowy, PL

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Person responsible for the safety data sheet: ranal@ranal.pl

1.4. Emergency telephone

+48 34 329 45 03 (8.00 - 15.00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product contains less than 1% of the respirable fraction of crystalline silica, so it does not require classification.

Classification 1272/2008/EC:

Asp. Tox. 1: Aspiration hazard, hazard category 1, H304. *

Eye Irrit. 2 Serious eye damage/eye irritation, hazard category 2, H319.

Flam. Liq. 3 Flammable liquids, hazard category 3, H226.

Skin Irrit. 2 Skin corrosion/irritation, hazard category 2, H315.

STOT RE 2 Specific target organ toxicity - single exposure, hazard category 2 (oral), H373.

2.2. Label elements

EC Regulation 1272/2008(CLP):

Contains: Xylene

Pictograms:



Signal word: **Danger** *

Hazard statements:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways. *
H319	Causes eye irritation.
H315	Causes skin irritation.
H373	May cause damage to organs through prolonged or repeated exposure (Oral).

Safety index:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash skin with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Store in a cool location.
P501	Dispose of the contents/container to containers in accordance with the regulations on hazardous waste or containers and wastes in containers respectively.

Additional information:

EUH211 Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour.

2.3. Other hazards

The product does not meet the criteria of PBT/vPvB. *

The product does not meet the criteria due to its endocrine-disrupting properties. *

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

ACRYLIC PPRIMER MAXI FILLER 5:1

3.2. Mixtures

Chemical description: Mixture based on chemical products.

Components:

According to Annex II to Regulation (EC) No. 1907/2006 (point 3), the product contains*:

Identification		Chemical name/classification		Concentration
CAS:	1330-20-7	Xsylene⁽¹⁾		10 -<25%
EC:	215-535-7	Regulation	Acute Tox. 4: H312+H332; Asp. Tax. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	
Index no:	601-022-00-9	1272/2008		
REACH:	01-2119488216-32-xxxx	Titanium dioxide (of aerodynamic diameter ≤ 10 µm)^{(1) *}		5 - < 10 %
CAS:	13463-67-7	Regulation	Carc. 2: H351 - Warning	
EC:	236-675-5	1272/2008		
Index no:	Not applicable	Butyl acetate⁽¹⁾		5 -<10%
REACH:	01-2119485493-29-XXXX	ATP CLP00	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	
CAS:	123-86-4	Regulation		
EC:	204-658-1	1272/2008		
Index no:	607-025-00-1	Barium sulfate^{(2) *}		5 -<10%
REACH:	01-2119485493-29-XXXX	Regulation	Not classified	
CAS:	7727-43-7	1272/2008		
EC:	231-784-4	2-butoxyethyl acetate⁽¹⁾		1 -<2,5%
Index no:	607-038-00-2	Regulation	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	
REACH:	01-2119475112-47-XXXX	1272/2008		
CAS:	100-41-4	Ethylbenzene		<1 %
EC:	202-849-4	ATP CLP00	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	
Index no:	601-023-00-4	Regulation		
REACH:	01-2119489370-35-XXXX	1272/2008		
CAS:	08-65-6	Quartz (1% <RCS <10%)^{(2) *}		<1 %
EC:	203-603-9	Regulation	STOT RE 2: H373 - Warning	
Index no:	607-195-00-7	1272/2008		
REACH:	01-2119475791-29- XXXX	Methyl methacrylate⁽²⁾		<1 %
CAS:	80-62-6	Regulation	Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	
EC:	201-297-1	1272/2008		
Index no:	607-035-00-6	butyl acrylate^{(2) *}		<1 %
REACH:	01-2119452498-28-XXXX	Regulation	Acute Tox. 4: H332; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317; STOT SE 3: H335 - Warning	
CAS:	141-32-2	1272/2008		
EC:	205-480-7	2-butoxyethanol⁽¹⁾		<1 %
Index no:	607-062-00-3	Regulation	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	
REACH:	01-2119453155-43- XXXX	1272/2008		
CAS:	111-76-2			
EC:	203-905-0			
Index no:	603-014-00-0			
REACH:	01-2119475108-36-XXXX			

⁽¹⁾ The substance poses a risk to health or the environment, meets the criteria set out in Commission Regulation (EU) 2015/830.

⁽²⁾ Substance with the EU workplace exposure limit.

For more information on the hazards caused by the substances see sections 8, 11, 12, 15 and 16 of the MSDS.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Symptoms of poisoning may only occur after exposure, therefore, in case of doubt, direct exposure to a chemical product or prolonged malaise, consult a doctor and show him the MSDS of the product.

Inhalation:

The product has not been classified as hazardous in case of inhalation, but despite this, symptoms of poisoning occur, it is recommended to remove the victim from the place of exposure and provide him with access to fresh air and rest. If symptoms persist, call for medical help.

Contact with skin:

Take off contaminated clothes and shoes, clean the skin or wash the injured person with natural soap, rinsing thoroughly with cold water. In case of serious disturbances consult a doctor. If the mixture caused burns or frostbite do not remove clothes from the injured, because if the clothes are stuck to the skin, it may cause even more damage. If blisters appear on the skin, do not pierce them as this may increase the risk of infection.

Contact with eyes:

Rinse the eyes thoroughly with water at room temperature for 15 minutes. If the injured person wears contact lenses, they should be removed, unless they are stuck to the eye, otherwise it may cause further injuries. In all cases, after washing consult a doctor as soon as possible and show him this Material Safety Data Sheet.

ACRYLIC PPRIMER MAXI FILLER 5:1

Ingestion/aspiration:

Call a doctor immediately and show him this Material Safety Data Sheet. Do not induce vomiting, and if this occurs, keep the head tilted forward to prevent aspiration of stomach contents. If unconscious, do not give anything by mouth until consulted by a doctor. Rinse mouth and throat with water as they have probably been contaminated when swallowed. Provide the injured person with rest. *

4.2. Most important symptoms both acute and delayed

Acute and delayed symptoms of exposure are described in sections 2 and 11 of the MSDS.

4.3. Indications of any immediate medical attention and special treatment needed

No data.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: Use dry powder extinguishers (ABC powder), alternatively use foam or carbon dioxide (CO₂) extinguishers. Unsuitable extinguishing agents: IT IS NOT RECOMMENDED to use running water as an extinguishing agent.

5.2. Special hazards arising from the substance or mixture

Combustion or thermal decomposition form reaction sub-products which can be highly toxic and in consequence may pose a serious health risk.

5.3. Advice for fire fighters

Depending on the extent of the fire, it may be necessary to use complete protective clothing and autonomous breathing equipment. A minimum supply of emergency devices and measures (fire blankets, first aid kit) in accordance with Directive 89/654 / EC should be available.

Additional provisions:

Act in accordance with the Internal Emergency Plan and information leaflets describing what to do in the event of accidents and other emergencies. Disable all ignition sources In the event of fire cool the containers used for storing products vulnerable to ignition, explosion or BLEVE explosion due to high temperatures. Do not let products used to extinguish a fire enter the water tank.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

For personnel non taking part in emergency procedures: Secure the leakage, if this activity does not pose a threat to the people who carry it out. Evacuate the site and remove people who do not have the proper protective measures. In the event of possible contact with the spilled product, it is obligatory to use personal protective equipment (see section 8). First of all, the formation of flammable air-vapour mixtures must be prevented, both through ventilation and the use of an inerting agent. Disable all ignition sources Eliminate static electricity by ensuring earthing and bonding all the surfaces that can develop static electricity.

For personnel taking part in emergency procedures*: See section 8.

6.2. Environmental precautions

The product is not classified as hazardous. Prevent contamination of ground and surface waters, watercourses, soil and sewage system.

6.3. Methods and materials for containment and cleaning up

It is recommended to: Absorb the spilled product with sand or neutral absorbent and transport it to a safe place. Do not use sawdust or other flammable materials to absorb the product. See section 13 for any product disposal considerations.

6.4. Reference to other sections

See also sections 8 and 13 of the MSDS.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Precautions necessary for safe handling of the product:

Comply with the applicable law regarding the prevention of risks in the workplace. Keep containers tightly closed. Control spills and wastes by using safe disposal methods (section 6 section). Prevent spontaneous leakage from containers. Keep order and cleanliness when handling hazardous products.

Technical recommendations for the prevention of fires and explosions:

Transfer in well-ventilated places, if possible by local extraction. Completely control ignition sources (cell phones, sparks) and ventilate the rooms during cleaning procedures. Prevent the formation of hazardous atmospheres in containers using inerting systems where possible. Pour the product slowly to prevent the formation of electrostatic charges. In the event of the possibility of electrostatic charging: ensure complete equipotential bonding, always use earthing devices, do not wear work clothes made of acrylic fibres, use cotton clothing and conductive shoes. Avoid direct contact and spraying of the product. The basic safety requirements for devices and systems set out in Directive 94/9/EC (Regulation of the Minister of Economy of December 22, 2005, Journal of Laws 2005 No. 263, item 2203) and basic provisions regarding safety and health protection at work must be met in accordance with selection criteria of Directive 1999/92/EC (Regulation of the Minister of Economy of 8 July 2010 Official, Journal of Laws 2010 No. 138, item 931). Information on conditions and substances to be avoided is provided in section 10 of the MSDS Safety.

Technical recommendations to prevent toxicological risks:

Do not eat or drink when handling the product and wash your hands with an appropriate cleaning agent after completing the procedure.*

ACRYLIC PPRIMER MAXI FILLER 5:1

Technical recommendations to prevent environmental risks:

It is recommended to keep absorbent material close to the product (see section 6.3 of the MSDS).

7.2. Conditions for safe storage, including any incompatibilities

Technical aspects of storage:

Min. temp.: 15°C*

Max. temp.: 25°C

Maximum time: 24 months*

General conditions of storage: Avoid sources of heat, radiation and electrostatics. Keep away from food. For more information see section 10.5 of the MSDS.

7.3. Special end use (s)

Apart from the indications already mentioned, it is not necessary to follow any specific recommendations concerning the application of the product.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

Occupational exposure limit values should be controlled for the following substances:

Identification	Limit values of environmental quality standards	
Xylene CAS: 1330-20-7 EC: 215-535-7	MPC	100 mg/m ³
	MPIC	200 mg/m ³
Titanium dioxide (of aerodynamic diameter ≤ 10 µm) CAS: 13463-86-4 EC: 236-675-1	MPC	10 mg/m ³
	MPIC	
Butyl acetate CAS: 123-86-4 EC: 204-658-1	MPC	240 mg/m ³
	MPIC	720 mg/m ³
Barium sulfate * CAS: 7727-43-7 EC: 231-784-4	MPC	0.5 mg/m ³
	MPIC	
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	MPC	100 mg/m ³
	MPIC	300 mg/m ³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	MPC	200 mg/m ³
	MPIC	400 mg/m ³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	MPC	260 mg/m ³
	MPIC	520 mg/m ³
Quartz (1% <RCS <10%) * CAS: 14808-60-7 EC: 238-878-4	MPC	0.1 mg/m ³
	MPIC	
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	MPC	100 mg/m ³
	MPIC	300 mg/m ³
butyl acrylate * CAS: 141-32-2 EC: 205-480-7	MPC	11 mg/m ³
	MPIC	30 mg/m ³
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	MPC	98 mg/m ³
	MPIC	200 mg/m ³

Talc *[14807-96-6]: inhalable fraction: NDS= 4 mg/m³ // inhalable fraction: MPC 1 mg/m³

DNEL (Workers):

Identification		Short-time exposure		Long-time exposure	
		Systemic	Local	Systemic	Local
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	No data	No data	no data*	No data
	Skin	No data	No data	212 mg/kg *	No data
	Inhalation	442 mg/m ³ *	442 mg/m ³ *	221 mg/m ³ *	221 mg/m ³ *
Butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	No data	No data	No data	No data
	Skin	11 mg/kg *	No data	11 mg/kg *	No data
	Inhalation	600 mg/m ³ *	600 mg/m ³ *	300 mg/m ³ *	300 mg/m ³ *
Barium sulfate * CAS: 7727-43-7 EC: 231-784-4	Oral	No data	No data	No data	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	No data	10 mg/m ³	10 mg/m ³
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	Oral	No data	No data	No data	No data
	Skin	120 mg/kg *	No data	102 mg/kg	No data
	Inhalation	no data*	333 mg/m ³	133 mg/m ³	No data
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	No data	No data	No data	No data
	Skin	No data	No data	180 mg/m ³	No data
	Inhalation	No data	293 mg/m ³	77 mg/m ³	No data
2-methoxy-1-methylethyl acetate* CAS: 108-65-6 EC: 203-603-9	Oral	No data	No data	No data	No data
	Skin	No data	No data	796 mg/m ³	No data
	Inhalation	No data	550 mg/m ³	275 mg/m ³	No data
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Oral	No data	No data	No data	No data
	Skin	No data	No data	13.67 mg/m ³	No data
	Inhalation	No data	416 mg/m ³ *	348.4 mg/m ³ *	208 mg/m ³
butyl acrylate * CAS: 141-32-2 EC: 205-480-7	Oral	No data	No data	No data	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	No data	No data	11 mg/m ³
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	Oral	No data	No data	no data*	No data
	Skin	89 mg/m ³	No data	125 mg/m ³ *	No data
	Inhalation	1091 mg/m ³ *	246 mg/m ³ *	98 mg/m ³ *	No data

ACRYLIC PPRIMER MAXI FILLER 5:1

DNEL (Population):		Short-time exposure		Long-time exposure	
Identification		Systemic	Local	Systemic	Local
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	No data	No data	12.5 mg/kg	No data
	Skin	No data	No data	125 mg/kg	No data
	Inhalation	260 mg/m ³	260 mg/m ³	65.3 mg/m ³	65.3 mg/m ³
Butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	2 mg/kg	No data	2 mg/kg	No data
	Skin	6 mg/kg	No data	6 mg/kg	No data
	Inhalation	300 mg/m ³	300 mg/m ³	35.7 mg/m ³	35.7 mg/m ³
Barium sulfate * CAS: 7727-43-7 EC: 231-784-4	Oral	No data	No data	13000 mg/kg	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	No data	10 mg/m ³	No data
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	Oral	36 mg/kg	No data	8.6 mg/kg	No data
	Skin	72 mg/kg	No data	102 mg/kg	No data
	Inhalation	No data	200 mg/m ³	80 mg/m ³	No data
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	No data	No data	1.6 mg/kg	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	No data	15 mg/m ³	No data
2-methoxy-1-methylethyl acetate* CAS: 108-65-6 EC: 203-603-9	Oral	No data	No data	36 mg/kg	No data
	Skin	No data	No data	320 mg/kg	No data
	Inhalation	No data	No data	33 mg/m ³	33 mg/m ³
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Oral	No data	No data	8.2 mg/kg *	No data
	Skin	No data	No data	8.2 mg/kg	No data
	Inhalation	No data	208 mg/m ³ *	74.3 mg/m ³	104 mg/m ³
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	Oral	No data	No data	6.3 mg/kg	No data
	Skin	89 mg/kg	No data	75 mg/kg	No data
	Inhalation	426 mg/m ³	147 mg/m ³	59 mg/m ³	No data

PNEC:

Xylene CAS: 1330-20-7 EC: 215-535-7	Sewage treatment plant	6.58 mg/L	Fresh water	0.327 mg/L
	Soil	2.31 mg/kg	Sea water	0.327 mg/L
	Intermittent	0.327 mg/L	Sediment (fresh water)	12.46 mg/kg
	Oral	No data	Sediment (sea water)	12.46 mg/kg
n-Butyl acetate CAS: 123-86-4 EC: 204-658-1	Sewage treatment plant	35.6 mg/L	Fresh water	0.18 mg/L
	Soil	0.09 mg/kg	Sea water	0.018 mg/L
	Intermittent	0.36 mg/L	Sediment (fresh water)	0.981 mg/kg
	Oral	No data	Sediment (sea water)	0.0981 mg/kg
Barium sulfate * CAS: 7727-43-7 EC: 231-784-4	Sewage treatment plant	62.2 mg/L	Fresh water	0.115 mg/L
	Soil	207.7 mg/kg	Sea water	No data
	Intermittent	No data	Sediment (fresh water)	600.4 mg/kg
	Oral	No data	Sediment (sea water)	No data
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	Sewage treatment plant	90 mg/L	Fresh water	0.304 mg/L*
	Soil	0.415 mg/kg	Sea water	0.03 mg/L
	Intermittent	0.56 mg/L	Sediment (fresh water)	2.03 mg/kg
	Oral	0.06 g/kg	Sediment (sea water)	0.203 mg/kg *
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Sewage treatment plant	9.6 mg/L	Fresh water	0.1 mg/L
	Soil	2.68 mg/kg	Sea water	0.01 mg/L
	Intermittent	0.1 mg/L	Sediment (fresh water)	13.7 mg/kg
	Oral	0.02 g/kg	Sediment (sea water)	1.37 mg/kg
2-methoxy-1-methylethyl acetate* CAS: 108-65-6 EC: 203-603-9	Sewage treatment plant	100 mg/L	Fresh water	0.635 mg/L
	Soil	0.29 mg/kg	Sea water	0.064 mg/L
	Intermittent	6.35 mg/L	Sediment (fresh water)	3.29 mg/kg
	Oral	6.35 mg/L	Sediment (sea water)	0.329 mg/kg
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Sewage treatment plant	10 mg/L	Fresh water	0.94 mg/L
	Soil	1.47 mg/kg	Sea water	0.94 mg/L
	Intermittent	0.94 mg/L	Sediment (fresh water)	5.74 mg/kg
	Oral	No data	Sediment (sea water)	No data
butyl acrylate * CAS: 141-32-2 EC: 205-480-7	Sewage treatment plant	3.5 mg/L	Fresh water	0.003 mg/L
	Soil	1 mg/kg	Sea water	0 mg/L
	Intermittent	0.011 mg/L	Sediment (fresh water)	0.034 mg/kg
	Oral	No data	Sediment (sea water)	0.003 mg/kg
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	Sewage treatment plant	463 mg/L	Fresh water	8.8 mg/L
	Soil	2.33 mg/kg	Sea water	0.88 mg/L
	Intermittent	26.4 mg/L	Sediment (fresh water)	34.6 mg/L
	Oral	0.02 g/kg	Sediment (sea water)	3.46 mg/kg

8.2. Exposure control

General measures of safety and hygiene at the workplace:

As a preventive measure, it is recommended to use protective clothing marked with the "CE marking". More information on protective clothing (storage, use, cleaning, maintenance, protection class ...) can be found in the information leaflet provided by the manufacturer of the protective clothing. The directions here are given for the pure product. The instructions for the diluted product may vary according to the dilution ratio, type of use, method of application etc. When determining the obligation to install emergency showers and / or eyewash devices in the storeroom, the regulations regarding the storage of chemical products will be taken into account. For more information see sections 7.1 and 7.2

All the information contained in this section - due to the lack of information on the protective equipment owned by the company - should be treated as a recommendation in order to prevent hazards when working with the product.

Respiratory protection:

In the event of vapour formation or in a situation where the maximum permissible concentration is exceeded it will be necessary to use protective clothing.

ACRYLIC PPRIMER MAXI FILLER 5:1

Obligatory respiratory protection*:



Protective	Labelling	CEN standards	Note:
Filtering mask protecting against gases and vapours (A type filter).		EN 405:2002+A1:2010*	If the smell or taste of the product leaks inside the mask or into the adapter, the mask should be replaced. If the pollutant does not have clear warning properties, the use of isolating equipment is recommended.
Filtering mask against particles (Filter type:FFP3)		EN 405:2002+A1:2010*	If the smell or taste of the product leaks inside the mask or into the adapter, the mask should be replaced. If the pollutant does not have clear warning properties, the use of isolating equipment is recommended. *

Hands protection:



Obligatory hands protection.

Protective	Labelling	CEN standards	Note:
Reusable gloves protecting against chemicals (Nitrile), breakthrough time 480 min. thickness 0,4 mm		* EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN 420:2004+A1:2010	The Breakthrough Time stated by the manufacturer must be longer than the product application time. Do not use protective creams after skin contact with the product.

As the product is made up of different materials, it is not possible to verify the strength of the glove completely reliably in advance and therefore has to be checked before use.

Eye and face protection:



Obligatory face protection.

Protective	Labelling	CEN standards	Note:
Panoramic glasses against liquid splashes and/or spatter.		* EN 166:2002 EN ISO 4007:2018	Clean every day and disinfect regularly according to the manufacturer's instructions. It is recommended to use where there is a risk of liquid splashing.

Body protection:



Obligatory body protection.

Protective	Labelling	CEN standards	Note:
Clothing protecting against chemical hazards, anti-electrostatic and flame-retardant.		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/ A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	Only for professional use. Clean every day according to the manufacturer's instructions.



Obligatory feet protection.

Protective	Labelling	CEN standards	Note:
Safety footwear protecting against chemical hazards, with antistatic properties and resistant to high temperatures.		* EN ISO 13287:2013 EN ISO 20345:2011 EN 13832-1:2019	In case of any signs of damage replace footwear.

Additional emergency measures:

Emergency measures	Standards	Emergency measures	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011 ISO 3864-4:2011	 Rinsing device	DIN 12 899 ISO 3864-1:2011 ISO 3864-4/ 2011

Environmental control:

Pursuant to the Community law on environmental protection, it is recommended to prevent the product and its packaging from getting into the environment. For more information – see section 7.1 of the MSDS.

ACRYLIC PPRIMER MAXI FILLER 5:1

Volatile Organic Compounds:

According to the requirements of the applicable law, this product has the following properties:

VOC (content):	23.11 % mass*
VOC Concentration 20°C:	538 kg/m ³ (538 g/l)
Average number of carbons:	7.22
Average molecular weight:	115.28 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Physical aspect:

Physical state 20°C	liquid
Appearance	highly viscous
Colour:	According to the labelling on the package
Odour:	characteristic
Odour threshold	no data

Volatility:

Boiling point at pressure 118°C*	
Vapour pressure 20°C 2098 Pa*	
Vapour pressure 50°C	11040.17 Pa (11.04 kPa)*
Evaporation rate 20°C	no data

Product characteristics:

Density 20°C	1620 kg/m ³
Relative density 20°C	1.62
Dynamic viscosity 20°C	2.03 cP*
Kinematic viscosity 20°C.	1.28 mm ² /s*
Kinematic viscosity 40°C	>20,5 cSt
Concentration	no data
pH	no data
Vapour density 20°C	no data
N-octanol/water partition coefficient	20°C no data
Solubility in water 20°C	no data
Degree of solubility	no data
Breakdown point	no data
Melting/freezing point	no data

Flammability:

Flash point	34°C*
Flammability (solid, gas):	no data
Auto ignition point	238°C
Bottom explosion limit:	not specified*
Top explosion limit not specified.*	

Particle characteristics*:

Median of diameter equivalent	not applicable
-------------------------------	----------------

9.2. Other information

Information on the physical hazard classes:

Explosive properties	no data
Oxidizing properties	no data
Substances corrosive to metals*	no data
Heat of combustion*	no data
Aerosols - total percentage (by mass) of flammable components*	no data

Other safety features:

Surface tension 20°C	no data
Refraction index	no data

*There is no information about hazards caused by the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive in conditions of storage. See section 7 of the MSDS.

10.2. Chemical stability

The product is chemically stable conditions of storage and use.

10.3. Possibility of hazardous reactions

There are no hazardous reactions if the product is stored as recommended.

10.4. Conditions to be avoided

Use an store at room temperature.

Shocks and friction:

Contact with the air:

Heating:

Sunlight:

Humidity:

Not applicable.

not applicable

risk of ignition

avoid direct exposure

not applicable

10.5. Incompatible materials

Acids:

Water:

Oxidants:

Flammable materials:

Other:

avoid strong acids

not applicable.

avoid direct contact

not applicable

avoid strong bases

10.6. Hazardous decomposition products

For the details on decomposition products see sections 10.3, 10.4 and 10.5 of MSDS. Depending on the conditions of decomposition, the process may release complex mixtures of chemical substances: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

For more information – see section 5 of the MSDS.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008*

There are no experimental data on the toxicological properties of the product.

Contains glycols, possible health hazards, therefore it is recommended not to inhale its vapours for too long.

Health hazard:

In case of prolonged exposure or at concentrations higher than the established occupational exposure limits, side effects on health may occur depending on the route of exposure:

Ingestion (acute effects):

- Acute toxicity: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous if swallowed. For more information – see section 3 of the MSDS.

- Caustic/Irritating: Swallowing a significant dose of the product may cause throat irritation, abdominal pain, dizziness and vomiting.

Inhalation (acute effects):

- Acute toxicity: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous if inhaled. For more information – see section 3 of the MSDS.

- Caustic/Irritating: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information – see section 3 of the MSDS.

Contact with skin and eyes (acute effects):

- Contact with skin: In case of contact it causes dermatitis.

- Contact with eyes: Causes damage in contact with eyes. *

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Carcinogenicity: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous due to carcinogenic effects. For more information see section 3 of the MSDS.

IARC: Xylene (3); Ethylbenzene (2B); Methyl methacrylate (3); butyl acrylate (3)*; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatic (2-25%) (3)*; 2-butoxyethanol (3); Talc (3); Soot (2B); Quartz (1% <RCS <10%) (1); Titanium dioxide (aerodynamic diameter ≤ 10 µm) (2B). *- May cause genetic effects: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information – see section 3 of the MSDS.

-May cause harmful effect to reproduction: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information – see section 3 of the MSDS.

- sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous due to their sensitizing effects. For more information – see section 3 of the MSDS.

- Skin: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information – see section 3 of the MSDS.

- Specific target Organ Toxicity (STOT), time of exposure:

Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous if inhaled. For more information – see section 3 of the MSDS.

Specific target Organ Toxicity (STOT) repeated exposure:

- Specific target Organ Toxicity (STOT) repeated exposure: In the event of repeated ingestion it causes side effects which adversely affect the nervous system, causing headache, nausea, dizziness, vomiting, lack of mental clarity and, in severe cases, loss of consciousness.

- Skin: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous in case of repeated exposure. For more information see section 3. *

Aspiration hazard:

Swallowing a significant dose of the product may damage lungs.*

ACRYLIC PPRIMER MAXI FILLER 5:1

Other information:

CAS 13463-67-7 Titanium dioxide (of aerodynamic diameter $\leq 10 \mu\text{m}$): Carcinogen (by inhalation) only applies to mixtures containing 1% or more of titanium dioxide particles with an aerodynamic diameter $\leq 10 \mu\text{m}$.

Detailed toxicological information on substances:

Identification	Acute toxicity		Type
Butyl acetate CAS: 123-86-4 EC: 204-658-1	LD50 oral	12789 mg/kg	Rat
	LD50 dermal	14112 mg/kg	Rabbit
	LC50 inhalation	23.4 mg/L (4h)	Rat
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (4h) (ATEi)	
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1480 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4h)	Rat
Barium sulfate * CAS: 7727-43-7 EC: 231-784-4	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	> 5 mg/L	
Titanium dioxide (of aerodynamic diameter $\leq 10 \mu\text{m}$) CAS: 13463-67-7 EC: 236-675-5	LD50 oral	10000 mg/kg	Rat
	LD50 dermal	10000 mg/kg	Rabbit
	LC50 inhalation	> 5 mg/L (4h)	
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	15354 mg/kg	Rabbit
	LC50 inhalation	17.2 mg/L (4h)	Rat
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LD50 oral	8532 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rat
	LC50 inhalation	30 mg/L (4h)	Rat
Quartz (1% <RCS <10%)* CAS: 14808-60-7 EC: 238-878-4	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	> 5 mg/L	
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	> 20 mg/L	
butyl acrylate * CAS: 141-32-2 EC: 205-480-7	LD50 oral	4000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	> 20 mg/L	
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	LD50 oral	1200 mg/kg *	Rat
	LD50 dermal	3000 mg/kg *	Rabbit
	LC50 inhalation	> 20 mg/L*	*

11.2. Information on other hazards*

Endocrine disrupting properties:

The product does not meet the criteria due to its endocrine-disrupting properties.

Other information:

No data.

SECTION 12: ECOLOGICAL INFORMATION

There are no experimental data on the ecotoxicological properties of the mixture itself.

12.1. Toxicity

Acute toxicity:

Identification	Acute toxicity		Type	Type
Xylene CAS: 1330-20-7 EC: 215-535-7	LC50	>10 - 100 (96 h)*	*	Fish
	EC50	>10 - 100 (48 h)*	*	Crustacea
	EC50	>10 - 100 (72 h)*	*	Alga
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	LC50	no data*	*	
	EC50	no data*	*	
	EC50	675 mg/L (72h)	Scenedesmus subspicatus	Alga
Barium sulfate * CAS: 7727-43-7 EC: 231-784-4	LC50	76000 mg/L (96 h)	Salmo gairdneri	Fish
	EC50	no data*		
	EC50	no data*		
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	LC50	80 mg/L (96h)	Leuciscus idus	Fish
	EC50	37 mg/L (48h)	Daphnia magna	Crustacean
	EC50	500 mg/L (3h)	Scenedesmus subspicatus	Alga
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LC50	42.3 mg/L (48h)	Pimephales promelas	Fish
	EC50	75 mg/L (48h)	Daphnia magna	Crustacean
	EC50	63 mg/L (72h)	Chlorella vulgaris	Alga
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LC50	161 mg/L (96h)	Pimephales promelas	Fish
	EC50	481 mg/L (48h)	Daphnia sp.	Crustacean
	EC50	No data		
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	LC50	191 mg/L (48h)	Lepomis macrochirus	Fish
	EC50	69 mg/L (48h)	Daphnia magna	Crustacean
	EC50	170 mg/L (72h)	Selenastrum capricornutum	Alga
butyl acrylate * CAS: 141-32-2 EC: 205-480-7	LC50	5.2 mg/L (96 h)	Salmo gairdneri	Fish
	EC50	230 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	5.5 mg/L (96 h)	Selenastrum capricornutum	Alga

ACRYLIC PPRIMER MAXI FILLER 5:1

2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	LC50	1490 mg/L (96h)	Lepomis macrochirus	Fish
	EC50	1815 mg/L (48h)	Daphnia magna	Crustacean
	EC50	911 mg/L (72h)	Pseudokirchneriella subcapitata	Alga

Chronic toxicity*:

Identification	Concentration		Type	Type
Xylene CAS: 1330-20-7, EC: 215-535-7	NOEC	1.3 mg/L	Oncorhynchus mykiss	Fish
	NOEC	1.17 mg/L	Ceriodaphnia dubia	Crustacean
N-butyl acetate CAS: 123-86-4, EC: 204-658-1	NOEC	No data		
	NOEC	23.2 mg/L	Daphnia magna	Crustacean
Barium sulfate * CAS: 7727-43-7, EC: 231-784-4	NOEC	100 mg/L	Danio rerio	Fish
	NOEC	No data		
Ethylbenzene CAS: 100-41-4, EC: 202-849-4	NOEC	No data		
	NOEC	0.96 mg/L	Ceriodaphnia dubia	Crustacean
2-methoxy-1-methylethyl acetate CAS: 108-65-6, EC: 203-603-9	NOEC	47.5 mg/L	Oryzias latipes	Fish
	NOEC	100 mg/L	Daphnia magna	Crustacean
Methyl methacrylate CAS: 80-62-6, EC: 201-297-1	NOEC	9.4 mg/L	Danio rerio	Fish
	NOEC	37 mg/L	Daphnia magna	Crustacean
butyl acrylate * CAS: 141-32-2, EC: 205-480-7	NOEC	No data		
	NOEC	0.136 mg/L	Daphnia magna	Crustacean
2-butoxyethanol CAS: 111-76-2, EC: 203-905-0	NOEC	100 mg/L	Danio rerio	Fish
	NOEC	100 mg/L	Daphnia magna	Crustacean

12.2. Persistence and degradability

Identification	Degradability		Biodegradability:	
Xylene* CAS: 1330-20-7 EC: 215-535-7	BOD5	No data	Concentration	No data
	COD	No data	Period	28 days
	BOD/COD	No data	% biodegradable	88 %
n-Butyl acetate CAS: 123-86-4 EC: 204-658-1	BOD5	No data	Concentration	No data
	COD	No data	Period	5 days
	BOD/COD	No data	% biodegradable	84 %
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BOD5	No data	Concentration	100 mg/L
	COD	No data	Period	14 days
	BOD/COD	No data	% biodegradable	90 %
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	BOD5	No data	Concentration	30 mg/L
	COD	No data	Period	28 days
	BOD/COD	no data*	% biodegradable	77,3 %
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BOD5	No data	Concentration	785 mg/L
	COD	No data	Period	8 days
	BOD/COD	No data	% biodegradable	100 %
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	BOD5	No data	Concentration	100 mg/L
	COD	No data	Period	14 days
	BOD/COD	no data*	% biodegradable	94,3 % *
butyl acrylate * CAS: 141-32-2 EC: 205-480-7	BOD5	No data	Concentration	100 mg/L
	COD	No data	Period	14 days
	BOD/COD	No data	% biodegradable	61.3 %
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	BOD5	0.71 g O2/g*	Concentration	100 mg/L*
	COD	2.2 g O2/g*	Period	14 days*
	BOD/COD	0.32 *	% biodegradable	96 % *

12.3 Bioaccumulative potential

Identification	Bioaccumulative potential	
Xylene CAS: 1330-20-7 EC: 215-535-7	BCF	9
	Log POW	2.77
	Potential	Low
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BCF	4
	Log POW	1.78
	Potential	Low
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	BCF	3
	Log POW	1.51
	Potential	Low
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BCF	1
	Log POW	3.15
	Potential	Low
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BCF	1 *
	Log POW	0.43 *
	Potential	Low
Methyl methacrylate CAS: 80-62-6	BCF	7
	Log POW	1.38

ACRYLIC PPRIMER MAXI FILLER 5:1

EC: 201-297-1	Potential	Low
butyl acrylate *	BCF	37
CAS: 141-32-2	Log POW	2.76
EC: 205-480-7	Potential	Medium
2-butoxyethanol	BCF	3
CAS: 111-76-2	Log POW	0.83
EC: 203-905-0	Potential	Low

12.4. Mobility in soil

Identification	Absorption/desorption		Variability	
Xylene CAS: 1330-20-7 EC: 215-535-7	Koc	202	Henry's constant	524.86 Pa·m ³ /mol
	Conclusions	Medium	dry soil	Yes
	Surface tension	No data	wet soil	Yes.
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Koc	No data	Henry's constant	No data
	Conclusions	No data	Of dry soil	No data
	Surface tension	2.478E-2 N/m (25°C)	Wet soil	No data
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Koc	520	Henry's constant	7.984 Pa·m ³ /mol*
	Conclusions	Medium	dry soil	Yes
	Surface tension	2.859E-2 N/m (25°C)*	Wet soil	Yes
2-butoxyethyl acetate CAS: 141-78-6 EC: 205-500-4	Koc	No data	Henry's constant	5,532E-1 Pa·m ³ /mol
	Conclusions	No data	Of dry soil	No
	Surface tension	No data	wet soil	Yes
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Koc	No data	Henry's constant	No data
	Conclusions	No data	Of dry soil	No data
	Surface tension	2.551E-2 N/m (25°C)	wet soil	No data
butyl acrylate * CAS: 141-32-2 EC: 205-480-7	Koc	No data	Henry's constant	No data
	Conclusions	No data	dry soil	No data
	Surface tension	2,598E-2 N/m (25 °C)	wet soil	No data
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	Koc	8	Henry's constant	1,621E-1 Pa·m ³ /mol
	Conclusions	Very high	dry soil	No
	Surface tension	2.729E-2 N/m (25°C)	wet soil	Yes.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria of PBT/vPvB.

12.6. Endocrine disrupting properties*

The product does not meet the criteria due to its endocrine-disrupting properties.

12.7. Other hazardous effects

No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Code	Description:	Waste type (Commission Regulation (EU) no 1357/2014)
08 01 11 *	Waste paints and varnishes containing organic solvents or other dangerous substances	Dangerous
15 01 10 *	Packaging containing residues of or contaminated by dangerous substances	

Waste type (Commission Regulation (EU) no 1357/2014):

HP5 Specific Target Organ Toxicity (STOT) or aspiration hazard.

HP3 Flammable

HP4 Irritating– causing skin irritation and eye damage.

Waste administration (disposal and assessment):

It should be handed over to a specialized disposal company authorized to assess and remove waste in accordance with Annex 1 and Annex 2 (Directive 2008/98 / EC of the European Parliament and of the Council). According to the code 15 01 10 (2014/955 / EU), when the container is in direct contact with the product, it should be handled in the same way as the product. Otherwise, it should be treated as non-hazardous waste. It is not recommended to discharge it into water courses. See section 6.2 of the MSDS.

Waste administration provisions:

Pursuant to Annex II of Regulation (EC) No. 1907/2006 (REACH), Community or national provisions related to waste management have been adopted.

Community law:

Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) no 1357/2014.

SECTION 14: TRANSPORT INFORMATION

Ground transport of dangerous goods:

According to the requirements of ADR 2021 and RID 2021*

14.1. UN number or ID number*)

UN1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class (-es)

3

Labels: 3



14.4. Packaging group

III

14.5. Environmental hazards

No.

14.6. Special precautions for users

Special precautions for users:

163, 367, 650 *

Tunnel restriction code:

D/E

Physical and chemical properties:

See section 9.

Limited Quantity:

5 L

14.7. Sea transport in bulk in accordance with IMO instruments*

No data.

Sea transport of dangerous goods:

According to IMDG 39-18.

14.1. UN number or ID number*

UN1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class (-es)

3

Labels: 3



14.4. Packaging group

III

14.5. Environmental hazards

Marine pollutant: No.

14.6. Special precautions for users

Special precautions for users:

163, 223, 367, 955

EmS code:

F-E, S-E

Physical and chemical properties:

See section 9.

Limited Quantity:

5 L

Segregation group

no data

14.7. Sea transport in bulk in accordance with IMO instruments*

No data.

Air transport of dangerous goods:

According to the requirements of IATA/ ICAO 2017.

14.1. UN number or ID number*

UN1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class (-es)

3

Labels: 3



14.4. Packaging group

III

14.5. Environmental hazards

No.

14.6. Special precautions for users

Physical and chemical properties: See section 9.

14.7. Sea transport in bulk in accordance with IMO instruments*

No data.

SECTION 15: REGULATORY INFORMATION

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

Substances candidating to authorization pursuant to EC Regulation 1907/2006 (REACH): No data.

Substances present in Annex XIV of REACH (authorization list) and expiry date: No data.

Regulation (EC) No 1005/2009 on substances depleting the ozone layer: No data.

Article 95, REGULATION (EU) NO 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL: No data.

REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals: No data.

Seveso III:

Section P5c

Description: FLAMMABLE LIQUIDS

Requirements concerning lower-tier establishments 5000t

Requirements concerning upper-tier establishments 50000t

Restrictions on the sale and use of certain hazardous substances and mixtures (Annex XVII of REACH, etc ...)*:

They cannot be used in:

- decorative articles intended to produce light or colour effects by means of different phases, e.g. in decorative lamps and ashtrays,
- tricks and jokes,
- games intended for one or more participants, or articles intended to be used as such, even for decorative purposes. Exposure to inhalable crystalline silica in the workplace must be controlled in accordance with Directive (EU) 2019/130.

Specific provisions for the protection of people or the environment:

It is recommended to use the information collected in this safety data sheet as a preliminary data to assess the local risk in order to take the necessary steps to prevent the risks associated with the handling, use, storage and disposal of this product.

Other regulations*:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/ 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended
- Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
- Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.
- Government Statement of 22 May 2013 on the entry into force of amendments to the Regulations for the International Carriage of Dangerous Goods by Rail (RID), constituting Annex C to the Convention concerning International Carriage of Dangerous Goods by Rail (COTIF), made in Bern on 9 May 1980. Official Journal of 2013 item 840).
- Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/20013.
- Government Statement of February 18, 2019 on the entry into force of amendments to Annexes A and B of the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957. (Journal of Laws of 2019, item 769)

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: OTHER INFORMATION

Provisions regarding the Safety Data Sheets:

This safety data sheet was prepared in accordance with ANNEX II - the Guide for persons preparing Safety Data Sheets - to Regulation (EC) No. 1907/2006 [Regulation (EC) No. 453/2010, Regulation (EU) No. 2015/830].

ACRYLIC PPRIMER MAXI FILLER 5:1

Texts of the regulation mentioned in section 2:

H304:	May be fatal if swallowed and enters airways. *
H315:	Causes skin irritation.
H373:	May cause damage to organs through prolonged or repeated exposure (Oral).
H226:	Flammable liquid and vapour.
H319:	Causes eye irritation.

Texts of the regulation mentioned in section 3:

These phrases do not refer to the product itself, they are for informational purposes only and refer to individual components mentioned in SECTION 3 of the MSDS.

EC Regulation 1272/2008 (CLP)*:

Acute Tox. 4: H312+H332 - Harmful if swallowed or if inhaled.
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.
Acute Tox. 4: H332 Harmful if inhaled.
Aquatic Chronic 3: H412 Harmful to aquatic life with long-lasting effects.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
Carc. 2: H351- Suspected of causing cancer (Inhalation).
Eye Irrit. 2: H319 Causes eye irritation.
Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Flam. Liq. 3: H226- Flammable liquid and vapour.
Skin Irrit. 2: H315 Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation).
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
STOT SE 3: H335 - May cause respiratory irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification process:

Skin Irrit. 2:	Calculation method
STOT RE 2:	Calculation method
Asp. Tox. 1*:	Calculation method
Flam. Liq. 3:	Calculation method (2.6.4.3.).
Eye Irrit. 2:	Calculation method

Advice on staff training:

It is recommended that personnel who will handle this product receive basic safety training to help understand and interpret the MSDS and product label.

Main sources of literature*:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations used in the text:

Supp.Class.:	Supplier ClassificationADR: International Agreement concerning the International Carriage of Dangerous Goods by Road.
IMDG:	International Maritime Code for Dangerous Goods.\
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
COD	Chemical oxygen demand (COD).
BOD:	Biochemical oxygen demand (BOD) within 5 days.
BCF:	Bioconcentration factor
Log POW:	octanol/water partition coefficient.
MPC:	Maximum permissible concentrations.
MPIC:	Maximum Permissible Instantaneous Concentration.
EC50:	effective concentration (the concentration of the component at which 50% of the organisms show an effect within a specified period of time).
LD50:	medial lethal dose.
LC50:	medial lethal concentration.
EC50:	medial effective concentration.
PBT:	the potential of toxic substances to bioaccumulate.
vPvB	very high potential of toxic substances to bioaccumulate.
IWO:	personal protection measures.
STP:	Sewage treatment plant
Henry's constant:	the solubility of a given component in a solution depending on the partial pressure of this component above the solution.
EC:	EINECS and ELINCS number (see also EINECS and ELINCS).
EINECS:	European Inventory of Existing Commercial Chemical Substances.
ELINCS:	European Inventory of Notified Chemical Substances.
CEN:	European Committee for Standardization.
STOT:	Specific target organ toxicity.
Koc:	the partition coefficient normalized for the content of organic carbon; it determines the degree of absorption of organic substances in soil
DNEL:	Derived no effect level of exposure.
PNEC:	Predicted no-effect concentration.

Changes compared to the previous safety data sheet affecting risk management:

Changes in the Sheet:

Update of sections:

9: rewording of sub-section 9.1: Information on basic physical and chemical properties

11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/ 2008: added subsection

11.2. Information on other hazards

12: new subsection 12.6: Endocrine disrupting properties.

14: rewording of sub-section 14.1: UN number or ID number; rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections:

1.1, 2.1, 2.2, 2.3, 3.2, 4.1, 6.1, 7.2, 8.1, 8.2, 9.1, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.6, 12.7, 13.1, 14.1, 14.6, 14.7, 15.1, 16.

General update.

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