SECTION 1: SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
ACRYLIC PRIMER FAST 4:1 HS PROFESSIONAL
UFI: W301-50TJ-X00G-9SPV GREY
UFI: R221-T0PP-Y00V-GN3C WHITE
UFI: V521-A0D3-900C-5YPE BLACK

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses (of professional user): Car repair, coating primer.*
For professional use only.
Uses advised against: No uses advised against.*

1.3. Details of the supplier of the safety data sheet

Przedsiębiorstwo RANAL Sp. z o.o.
Ul. Łódzka 3
42-240 Rudniki k. Częstochowy, PL

Tel.: +48 34 329 45 03
Fax: +48 34 320 12 16
Registration number 000029202

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

1.4. Emergency telephone number
+48 34 329 45 03 (8.00 - 15.00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture*

The classification of this product has been carried out in accordance with Regulation No. 1272/2008 (CLP).

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 - repeated exposure, hazard category 2, H373

2.2. Label elements
EC Regulation 1272/2008(CLP):

Pictograms:

Signal word: **Warning.**

Hazard statements:*
H319: Causes serious eye irritation.
H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
Precautionary statements*
P210: Keep away from heat sources, hot surfaces, sources of sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/respiratory protection/protective footwear.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352: IF ON SKIN: Wash 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. Keep cool.
P501: Dispose of contents/container into containers in accordance with the law regarding hazardous waste or containers and waste in containers, as appropriate.

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

Substances relevant for classification:
Xylene; Ethylbenzene

2.3. Other hazards
The substances used do not meet the PBT/vPvB criteria.
The product does not contain substances disrupting the functioning of the endocrine system.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Not applicable.

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: EC: Index: REACH:	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32-XXXX	Xylene [1]*		10-< 25%
		Regulation 1272/2008	Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 – Danger. Suppl. Class.	
CAS: EC: Index: REACH:	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17-XXXX	Titanium dioxide (of aerodynamic diameter ≤ 10 µm)[1] *		5-< 10%
		Regulation 1272/2008	Carc. 2: H351– Warning. ATP ATP14	
CAS: EC: Index: REACH:	123-86-4 204-658-1 607-025-00-1 01-2119485493-29-XXXX	Butyl acetate [1]*		5-< 10%
		Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 – Warning. ATP CLP00	
CAS: EC: Index: REACH:	100-41-4 202-849-4 601-023-00-4 01-2119489370-35-XXXX	Ethylbenzene [1]*		1 - <2.5 %
		Regulation 1272/2008	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373-Danger. ATP ATP06	
CAS: EC: Index: REACH:	112-07-2 203-933-3 607-038-00-2 01-2119475112-47-XXXX	2-Butoxyethyl acetate[2]*		<1 %
		Regulation 1272/2008	Acute Tox. 4: H302+ H312+ H332 – Warning. Suppl. Class.	
CAS: EC: Index: REACH:	108-65-6 203-603-9 607-195-00-7 01-2119475791-29-XXXX	2-Methoxy-1-methylethyl acetate[2]		<1 %
		Regulation 1272/2008	Flam. Liq. 3: H226; Warning. ATP ATP01	
CAS: EC: Index: REACH:	80-62-6 201-297-1 607-035-00-6 01-2119452498-28-XXXX	Methyl methacrylate[2]*		<1 %
		Regulation 1272/2008	Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger. ATP CLP00	
CAS: EC: Index: REACH:	141-32-2 205-480-7 607-062-00-3 01-2119453155-43-XXXX	Butyl acrylate[2]*		<1 %
		Regulation 1272/2008	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. Suppl. Class.	
CAS: EC: Index: REACH:	14808-60-7 238-878-4 Not applicable 01-2120770509-45-XXXX	Quartz (1% <RCS <10%)[2]		<1 %
		Regulation 1272/2008	STOT RE 2: H373– Warning. Suppl. Class.	
CAS: EC: Index: REACH:	111-76-2 203-905-0 603-014-00-0 01-2119475108-36-XXXX	2-butoxyethanol[2]*		<1 %
		Regulation 1272/2008	Acute Tox. 3: H331; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H335 - Danger. ATP ATP18	

[1] The substance poses a risk to health or the environment, meets the criteria set out in Commission Regulation (EU) 2020/878.
[2] Substance with the EU workplace exposure limit.

For more information on the hazards caused by the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:*

Identification	Acute toxicity		Type
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 oral	Not applicable	
	LD50 dermal	1100 mg/kg	Rat
	LC50 vapour inhalation	17 mg/L	Rat
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 oral	Not applicable	
	LD50 dermal	Not applicable	
	LC50 vapour inhalation	17,2 mg/L	Rat
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	LD50 oral	1880 mg/kg	Rat
	LD50 dermal	1500 mg/kg	Rabbit
	LC50 vapour inhalation	11 mg/L	
Butyl acrylate CAS: 141-32-2 EC: 205-480-7	LD50 oral	Not applicable	
	LD50 dermal	Not applicable	
	LC50 vapour inhalation	10.3 mg/L	Rat
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	LD50 oral	1200 mg/kg	Rat
	LD50 dermal	Not applicable	
	LC50 vapour inhalation	2.25 mg/L	Guinea pig

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: Remove the injured person from the area of exposure, provide access to fresh air and rest. In severe cases, i.e. cardiovascular and respiratory arrest, apply artificial respiration (mouth-to-mouth method, heart massage oxygen supply, etc.) and immediately seek medical attention.*

Contact with the skin: Take off contaminated clothes and shoes, clean the skin or wash the injured person with neutral 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.

Ingestion/aspiration: Do not induce vomiting, and if this occurs, keep the head tilted forward to prevent aspiration of stomach contents. Provide the injured person with rest. Rinse mouth and throat with water as they have probably been contaminated when swallowed.

4.2. Most important symptoms and effects, both acute and delayed
Acute and delayed symptoms of exposure are described in sections 2 and 11 of the MSDS.

4.3. Indication of any immediate medical attention and special treatment needed
Not applicable.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: Foam extinguisher (AB), Dry powder extinguisher (ABC), Carbon dioxide extinguisher (BC).*
Unsuitable extinguishing media: Water jet.*

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 release of the product, 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:
Wear protective clothing. Move unprotected persons to a safe place. See section 8.

6.2. Environmental precautions
It is recommended to prevent the product and its packaging from being released into the environment.*

6.3. Methods and materials for containment and cleaning up
It is recommended to:
Do not allow the product to enter drains, sewers or watercourses. Absorb spillage with sand or an inert absorbent and move it to a safe place. Do not absorb with sawdust or other flammable absorbents. Collect the product in appropriate containers and manage it in accordance with applicable regulations.
Leaks into water or the sea:
Minor leaks:
Contain spillage using barriers or similar equipment. Use appropriate absorbents for the collection and disposal of waste in accordance with applicable regulations.
Large leaks:
If possible, contain the leak in open water using barriers or similar equipment. If this is not possible, attempt to control its spread and collect the product using appropriate mechanical means.
Always consult experts before using dispersants and ensure you have the necessary permits required. Manage waste according to applicable regulations.

6.4. Reference to other sections
Personal protection measures – see section 8 of the Sheet. Disposal considerations – see section 13 of the Sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

A. 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). Prevent spontaneous leakage from containers. Keep order and cleanliness when handling hazardous products.

B. 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 2014/34/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, Journal of Laws 2010 No. 138 item 931). Information on conditions and substances to be avoided is provided in section 10.*

C. 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.

D. Technical recommendations to prevent environmental risks:
It is recommended to keep absorbent material close to the product (see section 6.3.).*

7.2. Conditions for safe storage, including any incompatibilities

A.- Special storage requirements:
Min. temp.: 15ºC
Max. temp.: 25ºC
Maximum time: 12 months

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

7.3. Specific end use(s)
See section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values should be controlled for the following substances (Journal of Laws 2018, item 1286, as amended):*:

Identification	Limit values of environmental quality standards		
Xylene	MPC		100 mg/m³
CAS: 1330-20-7, EC: 215-535-7	MPIC		200 mg/m³
Titanium dioxide (of aerodynamic diameter ≤ 10 µm) *	MPC		10 mg/m³
CAS: 13463-67-7, EC: 236-675-5	MPIC		
Butyl acetate	MPC		240 mg/m³
CAS: 123-86-4, EC: 204-658-1	MPIC		720 mg/m³
Ethylbenzene[1]*	MPC		200 mg/m³
CAS: 100-41-4, EC: 202-849-4	MPIC		400 mg/m³
2-butoxyethyl acetate[1]*	MPC		100 mg/m³
CAS: 112-07-2, EC: 203-933-3	MPIC		300 mg/m³
2-methoxy-1-methylethyl acetate[1]	MPC		260 mg/m³
CAS: 108-65-6, EC: 203-603-9	MPIC		520 mg/m³
Methyl methacrylate*	MPC		100 mg/m³
CAS: 80-62-6, EC: 201-297-1	MPIC		300 mg/m³
Butyl acrylate*	MPC		11 mg/m³
CAS: 141-32-2, EC: 205-480-7	MPIC		30 mg/m³
Quartz (1% <RCS <10%)	MPC		0.1 mg/m³
CAS: 14808-60-7, EC: 238-878-4	MPIC		
2-butoxyethanol[1]	MPC		98 mg/m³
CAS: 111-76-2, EC 203-905-0	MPIC		200 mg/m³

[1]Skin
Talc [14807-96-6]: inhalable fraction: NDS= 4 mg/m^3 // inhalable fraction: MPC 1 mg/m^3

DNEL (Workers):*

Identification		Short-time exposure		Long-time exposure	
		Systemic	Local	Systemic	Local
Xylene	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 1330-20-7	Skin	Not applicable	Not applicable	212 mg/kg	Not applicable
EC: 215-535-7	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
Butyl acetate	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 123-86-4	Skin	11 mg/kg	Not applicable	11 mg/kg	Not applicable

EC: 204-658-1	Inhalation	600 mg/m³	600 mg/m³	300 mg/m³	300 mg/m³
Ethylbenzene	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 100-41-4	Skin	Not applicable	Not applicable	180 mg/kg	Not applicable
EC: 202-849-4	Inhalation	Not applicable	293 mg/m³	77 mg/m³	Not applicable
2-butoxyethyl acetate	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 112-07-02	Skin	120 mg/kg	Not applicable	169 mg/kg	Not applicable
EC: 203-933-3	Inhalation	Not applicable	333 mg/m³	133 mg/m³	Not applicable
2-methoxy-1-methylethyl acetate	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 108-65-6	Skin	Not applicable	Not applicable	796 mg/kg	Not applicable
EC: 203-603-9	Inhalation	Not applicable	550 mg/m³	275 mg/m³	Not applicable
Methyl methacrylate*	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 80-62-6	Skin	Not applicable	Not applicable	13.67 mg/kg	Not applicable
EC: 201-159-0	Inhalation	Not applicable	416 mg/m³	348.4 mg/m³	208 mg/m³
Butyl acrylate*	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 141-32-2	Skin	Not applicable	Not applicable	Not applicable	Not applicable
EC: 205-480-7	Inhalation	Not applicable	Not applicable	Not applicable	11 mg/m³
2-butoxyethanol*	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 111-76-2	Skin	89 mg/kg	Not applicable	125 mg/kg	Not applicable
EC: 203-905-0	Inhalation	1091 mg/m³	246 mg/m³	98 mg/m³	Not applicable

DNEL (Population):

Identification		**Short-time exposure**		**Long-time exposure**	
		Systemic	**Local**	**Systemic**	**Local**
Xylene	Oral	Not applicable	Not applicable	12.5 mg/kg	Not applicable
CAS: 1330-20-7	Skin	Not applicable	Not applicable	125 mg/kg	Not applicable
EC: 215-535-7	Inhalation	260 mg/m³	260 mg/m³	65.3 mg/m³	65.3 mg/m³
Butyl acetate	Oral	2 mg/kg	Not applicable	2 mg/kg	Not applicable
CAS: 123-86-4	Skin	6 mg/kg	Not applicable	6 mg/kg	Not applicable
EC: 204-658-1	Inhalation	300 mg/m³	300 mg/m³	35.7 mg/m³	35.7 mg/m³
Ethylbenzene*	Oral	Not applicable	Not applicable	1.6 mg/kg	Not applicable
CAS: 100-41-4	Skin	Not applicable	Not applicable	Not applicable	Not applicable
EC: 202-849-4	Inhalation	Not applicable	Not applicable	15 mg/m³	Not applicable
2-butoxyethyl acetate*	Oral	36 mg/kg	Not applicable	8.6 mg/kg	Not applicable
CAS: 112-07-2	Skin	72 mg/kg	Not applicable	102 mg/kg	Not applicable
EC: 203-933-3	Inhalation	Not applicable	200 mg/m³	80 mg/m³	Not applicable
2-methoxy-1-methylethyl acetate	Oral	Not applicable	Not applicable	36 mg/kg	Not applicable
CAS: 108-65-6	Skin	Not applicable	Not applicable	320 mg/kg	Not applicable
EC: 203-603-9	Inhalation	Not applicable	Not applicable	33 mg/m³	33 mg/m³
Methyl methacrylate*	Oral	Not applicable	Not applicable	8.2 mg/kg	Not applicable
CAS: 80-62-6	Skin	Not applicable	Not applicable	8.2 mg/kg	Not applicable
EC: 201-297-1	Inhalation	Not applicable	208 mg/m³	74.3 mg/m³	104 mg/m³
2-butoxyethanol*	Oral	Not applicable	Not applicable	6.3 mg/kg	Not applicable
CAS: 111-76-2	Skin	89 mg/kg	Not applicable	75 mg/kg	Not applicable
EC: 203-905-0	Inhalation	426 mg/m³	147 mg/m³	59 mg/m³	Not applicable

PNEC:

Identification				
Xylene	Sewage treatment plant	6.58 mg/L	Fresh water	0.327 mg/L
CAS: 1330-20-7	Soil	2.31 mg/kg	Sea water	0.327 mg/L
EC: 215-535-7	Intermittent	0.327 mg/L	Sediment (fresh water)	12.46 mg/kg
	Oral	Not applicable	Sediment (Sea water)	12.46 mg/kg
Butyl acetate	Sewage treatment plant	35.6 mg/L	Fresh water	0.18 mg/L
CAS: 123-86-4	Soil	0.09 mg/kg	Sea water	0.018 mg/L
EC: 204-658-1	Intermittent	0.36 mg/L	Sediment (fresh water)	0.981 mg/kg
	Oral	Not applicable	Sediment (Sea water)	0.098 mg/kg
Ethylbenzene*	Sewage treatment plant	9.6 mg/L	Fresh water	0.1 mg/L
CAS: 100-41-4	Soil	2.68 mg/kg	Sea water	0.01 mg/L
EC: 202-849-4	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-butoxyethyl acetate*	Sewage treatment plant	90 mg/L	Fresh water	0.304 mg/L
CAS: 112-07-2	Soil	0.415 mg/kg	Sea water	0.03 mg/L
EC: 203-933-3	Intermittent	0.56 mg/L	Sediment (fresh water)	2.03 mg/kg
	Oral	0.06 g/kg	Sediment (Sea water)	0.203 mg/kg
2-methoxy-1-methylethyl acetate	Sewage treatment plant	100 mg/L	Fresh water	0.635 mg/L
CAS: 108-65-6	Soil	0.29 mg/kg	Sea water	0.064 mg/L
EC: 203-603-9	Intermittent	6.35 mg/L	Sediment (fresh water)	3.29 mg/kg
	Oral	Not applicable	Sediment (Sea water)	0.329 mg/kg
Methyl methacrylate*	Sewage treatment plant	10 mg/L	Fresh water	0.94 mg/L
CAS: 80-62-6	Soil	1.48 mg/kg	Sea water	0.094 mg/L
EC: 201-297-1	Intermittent	0.94 mg/L	Sediment (fresh water)	10.2 mg/kg
	Oral	Not applicable	Sediment (Sea water)	0.102 mg/kg
Butyl acrylate	Sewage treatment plant	3.5 mg/L	Fresh water	0.003 mg/L
CAS: 141-32-2	Soil	1 mg/kg	Sea water	0 mg/L
EC: 205-480-7	Intermittent	0.011 mg/L	Sediment (fresh water)	0.034 mg/kg
	Oral	Not applicable	Sediment (Sea water)	0.003 mg/kg
2-butoxyethanol	Sewage treatment plant	463 mg/L	Fresh water	8.8 mg/L
CAS: 111-76-2	Soil	2.33 mg/kg	Sea water	0.88 mg/L
EC: 203-905-0	Intermittent	26.4 mg/L	Sediment (fresh water)	34.6 mg/kg
	Oral	0.02 g/kg	Sediment (Sea water)	3.46 mg/kg

8.2. Exposure controls

A. - Personal protective measures such as personal protective equipment:*

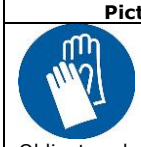
According to the Occupational Exposure Control Regulation local ventilation is recommended as a collective protection measure in the workplace to prevent exceeding the maximum exposure limit. If protective clothing is used, it has to be "CE" marked. More information on protective clothing (storage, use, 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.

B. Respiratory protection.

Pictogram	Protective equipment	Labelling	CEN Standard	Note:
 Obligatory respiratory protection	Protective filter mask against gases and vapours (Filter type: A)	CE CAT III	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.
 Obligatory respiratory tract protection*	Protective filter mask against gases and vapours (Filter type: FFP3)*	CE CAT III	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.*

C. - Special hands protection

Pictogram	Protective equipment	Labelling	CEN Standard	Note:
 Obligatory hands protection.	Reusable gloves protecting against chemical agents (Material: Nitrile, Breakthrough time: > 480 min Thickness of the material: 0,4 mm)	CE CAT III	EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	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.

D. Eye and face protection:

Pictogram	Protective equipment	Labelling	CEN Standard	Note:
 Obligatory face protection.	Panoramic glasses against liquid splashes and/or spatter.	CE CAT II	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.

E.- Body protection:

Pictogram	Protective equipment	Labelling	CEN Standard*	Note:
 Obligatory body protection.	Clothing protecting against chemical hazards, anti-electrostatic and flame-retardant.	CE CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2005/ A1:2011 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1995	Only for professional use. Clean every day according to the manufacturer's instructions.
 Obligatory feet protection.	Safety footwear protecting against chemical hazards, with antistatic properties and resistant to high temperatures.	CE CAT III	EN ISO 13287:2020 EN ISO 20345:2022 EN 13832-1:2019	In case of any signs of damage replace footwear.

F. - Additional emergency measures.

Emergency measures	Standards	Emergency measures	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eye rinse 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.

Volatile Organic Compounds:
According to the requirements of the applicable regulations This product has the following properties:

VOC (content):	21,58 % mass*
VOC concentration 20ºC:	538 kg/m³ (538 g/L)*
Average number of carbons:	7.25 *
Average molecular weight:	112.82 g/mol*

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical aspect:

Physical state 20ºC:	Liquid
Appearance:	Highly viscous
Colour:	According to the labelling on the container
Odour:	Characteristic
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	117ºC *
Vapour pressure at 20ºC:	2107 Pa *
Vapour pressure at 50ºC:	11087.39 Pa (11.09 kPa)*
Evaporation rate:	No data

Product characteristics:

Density 20ºC:	1678 kg/m³*
Relative density 20ºC:	1.62 *
Dynamic viscosity 20ºC:	2.25 mPas*
Kinematic viscosity 20ºC:	1.43 mm²/s*
Kinematic viscosity 40ºC:	>20.5 mm²/s*
Concentration:	Not applicable *
pH:	Not applicable *
Relative vapour density 20ºC:	Not applicable *
n-octanol/water partition coefficient 20ºC:	Not applicable *
Solubility in water 20ºC:	Not applicable *
Degree of solubility:	Not applicable *
Decomposition temperature:	Not applicable *
Melting point/freezing point:	Not applicable *

Flammability of materials:

Flash point:	32ºC
Flammability (solid, gas):	Not applicable *
Autoignition temperature:	238ºC*
Bottom explosion limit:*	Not applicable *
Top explosion limit:*	Not applicable *

Particle characteristics:

Median equivalent diameter:	Not applicable

9.2. Other information

Information with regard to physical hazard classes:

Explosive properties:	Not applicable *
Oxidising properties:	Not applicable *
Corrosive to metals:	Not applicable *
Heat of combustion:	Not applicable *
Aerosols-total percentage (by mass) of flammable components:	Not applicable *

Other safety characteristics:

Surface tension 20ºC:	Not applicable *
Refraction index:	Not applicable *

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

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
The product is not reactive under storage conditions. See section 7 of the Safety Data Sheet.

10.2. Chemical stability
The product is chemically stable under 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: Not applicable.
Contact with air: Not applicable.
Heating: Risk of ignition.
Sunlight: Avoid direct contact.
Humidity: Not applicable.

10.5. Incompatible materials*
Acids: Avoid strong acids.*
Water: Not applicable.
Oxidants: Avoid direct contact.
Flammable materials: Not applicable.
Other: Avoid strong bases.

10.6. Hazardous decomposition products
See Sections 10.3, 10.4 and 10.5 for details of decomposition products. Depending on decomposition conditions, complex chemical mixtures may be released: carbon dioxide CO2, carbon monoxide and other organic compounds. For more information see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on the hazard classes as 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:
A- Ingestion (acute effect):
- 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.
- Caustic/Irritating: Swallowing a significant dose of the product may cause throat irritation, abdominal pain, dizziness and vomiting.

B- 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.
- Caustic/Irritating: 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.

C- Contact with the skin and the eyes (acute effect):
- Contact with skin: In case of contact it causes dermatitis
- Contact with eyes: Causes damage in contact with eyes.

D- 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.
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); Quartz (1% <RCS <10%) (1); Titanium dioxide (aerodynamic diameter ≤ 10 µm) (2B); Talc (3)
- May cause genetic effects: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the environment. For more information see section 3.
-May cause harmful effect to reproduction: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the environment. For more information see section 3.

E- 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.
- Skin: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous due to sensitizing effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single 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.

G- Specific target organ toxicity (STOT) - repeated exposure:
- Specific target Organ Toxicity (STOT) repeated exposure: Exposure to high doses may 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.

H- Aspiration hazard:
Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous. For more information see section 3.

Other information:

CAS 13463-67-7 Titanium dioxide (of aerodynamic diameter ≤ 10 µm): Carcinogen (by inhalation) only applies to mixtures containing 1% or more of titanium dioxide particles with an aerodynamic diameter ≤ 10 µm.

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 vapour inhalation	23.4 mg/L(4)	Rat
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 vapour inhalation	17 mg/L	Rat
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	Rat
Titanium dioxide (of aerodynamic diameter ≤ 10 µm) 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	
2-butoxyethyl acetate CAS: 112-07-2 EC: 203-933-3	LD50 oral	1880 mg/kg	Rat
	LD50 dermal	1500 mg/kg	Rabbit
	LC50 inhalation	11 mg/L	
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
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	10.3 mg/L	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	
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	LD50 oral	1200 mg/kg	Rat
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	2.25 mg/L	Guinea pig

Estimated acute toxicity (ATE mix)*:

ATE mix		Components of unknown toxicity
Oral	>2000 mg/kg (calculation method)	0%
Skin	10235.7 mg/kg (calculation method)	0%
Inhalation	137.22 mg/L (4 h) (Calculation method)	0%

11.2. Information on other hazards

Endocrine disrupting properties:
The product does not contain substances disrupting the functioning of the endocrine system.

Other information:
Not applicable.

SECTION 12: ECOLOGICAL INFORMATION
There are no experimental data on the ecotoxicological properties of the mixture itself.
Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous. For more information see section 3.

12.1. Toxicity

Acute toxicity

Identification	Concentration		Type	Type
Xylene CAS: 1330-20-7 EC: 215-535-7	LC50	>10 - 100 mg/L (96 h)		Fish
	EC50	>10 - 100 mg/L (48 h)		Crustacean
	EC50	>10 - 100 mg/L (72 h)		Algae
Butyl acetate CAS: 123-86-4 EC: 204-658-1	LC50	Not applicable		
	EC50	Not applicable		
	EC50	675 mg/L(72h)	Scenedesmus subspicatus	Algae
Ethylbenzene* CAS: 100-41-4 EC: 202-849-4	LC50	42.3 mg/L (96h)	Pimephales promelas	Fish
	EC50	75 mg/L (48h)	Daphnia magna	Crustacean
	EC50	63 mg/L (3h)	Chlorella vulgaris	Algae
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	Not applicable		
Methyl methacrylate* CAS: 80-62-6 EC: 201-297-1	LC50	191 mg/L (96h)	Lepomis macrochirus	Fish
	EC50	69 mg/L (96h)	Daphnia magna	Crustacean
	EC50	170 mg/L(72h)	Selenastrum capricornutum	Algae
Butyl acrylate* CAS: 78-93-3 EC: 201-159-0	LC50	5.2 mg/L (96h)	Salmo gairdneri	Fish
	EC50	230 mg/L (24h)	Daphnia magna	Crustacean
	EC50	5.5 mg/L (96h)	Selenastrum capricornutum	Algae
2-butoxyethanol*	LC50	1490 mg/L (96h)	Lepomis macrochirus	Fish

CAS: 111-76-2	EC50	1815 mg/L (48h)	Daphnia magna	Crustacean
EC: 203-905-0	EC50	911 mg/L (72h)	Pseudokirchneriella subcapitata	Algae

Chronic toxicity:*

Identification	Concentration		Type	Type
Xylene	NOEC	1.3 mg/L	Oncorhynchus mykiss	Fish
CAS: 1330-20-7, EC: 215-535-7	NOEC	1.17 mg/L	Ceriodaphnia dubia	Crustacean
Butyl acetate	NOEC	Not applicable		
CAS: 123-86-4, EC: 204-658-1	NOEC	23.2 mg/L	Daphnia magna	Crustacean
Ethylbenzene*	NOEC	Not applicable		
CAS: 100-41-4, EC: 202-849-4	NOEC	0.96 mg/L	Ceriodaphnia dubia	Crustacean
2-methoxy-1-methylethyl acetate	NOEC	47.5 mg/L	Oryzias latipes	Fish
CAS: 108-65-6, EC: 203-603-9	NOEC	100 mg/L	Daphnia magna	Crustacean
Methyl methacrylate*	NOEC	9.4 mg/L	Danio rerio	Fish
CAS: 80-62-6, EC: 201-297-1	NOEC	37 mg/L	Daphnia magna	Crustacean
Butyl acrylate*	NOEC	Not applicable		
CAS: 141-32-2, EC: 205-480-7	NOEC	0.136 mg/L	Daphnia magna	Crustacean
2-butoxyethanol*	NOEC	100 mg/L	Danio rerio	Fish
CAS: 111-76-2, EC: 203-905-0	NOEC	100 mg/L	Daphnia magna	Crustacean

12.2. Persistence and degradability*

Detailed information on the substances*:

Identification	Degradability		Biodegradability	
Xylene	BOD5	Not applicable	Concentration	Not applicable
CAS: 1330-20-7	COD	Not applicable	Period	28 days
EC: 215-535-7	BOD/COD	Not applicable	% Biodegradable	88%
Butyl acetate	BOD5	Not applicable	Concentration	Not applicable
CAS: 123-86-4	COD	Not applicable	Period	5 days
EC: 204-658-1	BOD/COD	Not applicable	% Biodegradable	84%
Ethylbenzene*	BOD5	Not applicable	Concentration	100 mg/L
CAS: 100-41-4	COD	Not applicable	Period	14 days
EC: 202-849-4	BOD/COD	Not applicable	% Biodegradable	90%
2-butoxyethyl acetate*	BOD5	Not applicable	Concentration	30 mg/L
CAS: 112-07-2	COD	Not applicable	Period	28 days
EC: 203-933-3	BOD/COD	Not applicable	% Biodegradable	77.3%
2-methoxy-1-methylethyl acetate	BOD5	Not applicable	Concentration	785 mg/L
CAS: 108-65-6	COD	Not applicable	Period	8 days
EC: 203-603-9	BOD/COD	Not applicable	% Biodegradable	100%
Methyl methacrylate*	BOD5	Not applicable	Concentration	100 mg/L
CAS: 78-93-3	COD	Not applicable	Period	14 days
EC: 201-159-0	BOD/COD	Not applicable	% Biodegradable	94.3%
Butyl acrylate*	BOD5	Not applicable	Concentration	100 mg/L
CAS: 64-19-7	COD	Not applicable	Period	14 days
EC: 200-580-7	BOD/COD	Not applicable	% Biodegradable	61.3%
2-butoxyethanol*	BOD5	0,71 g O2/g	Concentration	100 mg/L
CAS: 111-76-2	COD	2,2 g O2/g	Period	14 days
EC: 203-905-0	BOD/COD	0.32	% Biodegradable	96%

12.3. Bioaccumulative potential:*

Identification	Bioaccumulative potential	
Xylene	BCF	9
CAS: 1330-20-7	Log POW	2.77
EC: 215-535-7	Potential	Low
Butyl acetate	BCF	4
CAS: 123-86-4	Log POW	1.78
EC: 204-658-1	Potential	Low
Ethylbenzene*	BCF	1
CAS: 100-41-4	Log POW	3.15
EC: 202-849-4	Potential	Low
2-butoxyethyl acetate*	BCF	3
CAS: 112-07-2	Log POW	1.51
EC: 203-933-3	Potential	Low
2-methoxy-1-methylethyl acetate	PCF	1
CAS: 108-65-6	Log POW	0.43
EC: 203-603-9	Potential	Low
Methyl methacrylate*	PCF	7
CAS: 80-62-6	Log POW	1.38
EC: 201-297-1	Potential	Low
Butyl acrylate*	BCF	37
CAS: 141-32-2	Log POW	2.36
EC: 205-480-7	Potential	Moderate
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	Koc	202	Henry's constant	524.86 Pa·m³/mol
CAS: 1330-20-7	Conclusion	Moderate	dry soil	Yes
EC: 215-535-7	Surface tension	Not applicable	wet soil	Yes
Butyl acetate	Koc	Not applicable	Henry's constant	Not applicable
CAS: 123-86-4	Conclusion	Not applicable	dry soil	Not applicable
EC: 204-658-1	Surface tension	2,478E-2 N/m (25 ºC)	wet soil	Not applicable

Ethylbenzene* CAS: 100-41-4 EC: 202-849-4	Koc	520	Henry's constant	798.44 Pa·m³/mol
	Conclusion	Moderate	dry soil	Yes
	Surface tension	2,859E-2 N/m (25 ºC)	wet soil	Yes
2-butoxyethyl acetate* CAS: 112-07-2 EC: 203-933-3	Koc	Not applicable	Henry's constant	5,532E-1 Pa·m³/mol
	Conclusion	Not applicable	dry soil	Not applicable
	Surface tension	Not applicable	wet soil	Yes
Methyl methacrylate* CAS: 80-62-6 EC: 201-297-1	Koc	Not applicable	Henry's constant	Not applicable
	Conclusion	Not applicable	dry soil	Not applicable
	Surface tension	2,551E-2 N/m (25 ºC)	wet soil	Not applicable
Butyl acrylate* CAS: 141-32-2 EC: 205-480-7	Koc	Not applicable	Henry's constant	Not applicable
	Conclusion	Not applicable	dry soil	Not applicable
	Surface tension	2,598E-2 N/m (25 ºC)	wet soil	Not applicable
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	Koc	8	Henry's constant	1,621E-1 Pa·m³/mol
	Conclusion	Very High	dry soil	Not applicable
	Surface tension	2,729E-2 N/m (25 ºC)	wet soil	Yes

12.5. Results of PBT and vPvB assessment
The substances used do not meet the criteria of PBT/vPvB.

12.6. Endocrine disrupting properties
The product does not contain substances disrupting the functioning of the endocrine system.

12.7. Other adverse effects
No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods*

Waste code:
08 01 11* : Waste paints and varnishes containing organic solvents or other dangerous substances.
15 01 10*: packaging containing residues of or contaminated by hazardous substances.

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

Waste type (Commission Regulation (EU) no 1357/2014)*:
HP3 Flammable, HP5 Specific target organ toxicity (STOT) or aspiration hazard, 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 (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

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.

National Law:
Act of June 13, 2013 on the management of packagings and packaging waste (i.e. Journal of Laws of 2023, item 1658*).
Act of December 14, 2012 on waste (ie Journal of Laws of 2023, item 1587*).

SECTION 14: TRANSPORT INFORMATION

A. Ground transport of dangerous goods:
According to the requirements of ADR 2023 and RID 2023*:

14.1. UN number or ID number
UN1263

14.2. UN proper shipping name
PAINT

14.3. Transport hazard class (-es)
3
Label: 3

14.4. Packaging group

III

14.5. Environmental hazards
No.

14.6. Special precautions for users

Special provisions:	163, 367, 650
Tunnel restriction code:	D/E
Physico-Chemical properties:	See section 9
Limited Quantity:	5 L

14.7. Maritime transport in bulk according to IMO instruments
Not applicable*.

B. Sea transport of dangerous goods:
According to IMDG 41-22*:

14.1. UN number or ID number
UN1263

14.2. UN proper shipping name
PAINT

14.3. Transport hazard class (-es)
3
Label: 3

14.4. Packaging group
III

14.5. Marine pollutant*
No.

14.6. Special precautions for users

Special provisions:	223, 955, 163, 367
EmS code:	F-E, S-E
Physico-Chemical properties:	See section 9
Limited Quantity:	5 L
Segregation group:	Not applicable *

14.7. Maritime transport in bulk according to IMO instruments
Not applicable*.

C. Air transport of dangerous goods:
According to the requirements of IATA/ ICAO 2024*:

14.1. UN number or ID number
UN1263

14.2. UN proper shipping name
PAINT

14.3. Transport hazard class (-es)
3
Label: 3

14.4. Packaging group
III

14.5. Environmental hazards
No.

14.6. Special precautions for users

Physico-Chemical properties:	See section 9

14.7. Maritime transport in bulk according to IMO instruments
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

- Article 95, REGULATION (EU) NO 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants: Not applicable
REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals: Dibutyltin dilaurate (77-58-7)
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not applicable
- Substances candidating to authorization pursuant to EC Regulation 1907/2006(REACH): Not applicable
- Substances present in Annex XIV of REACH (authorization list) and expiry date: Not applicable

Sevesto III:
Section P5c
Description: FLAMMABLE LIQUIDS
Requirements for lower-risk establishments: 5000
Requirements for higher-risk establishments: 50000

Restrictions on the sale and use of certain hazardous substances and mixtures (Annex XVII of REACH, etc ...):
They cannot be used in
- decorative products intended to produce light or colour effects by means of various phases, e.g. in decorative lamps and ashtrays,
- tricks and jokes,
- games intended for one or more participants or articles to be used as such, even in decorative purposes.
Exposure to respirable 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 included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:
• 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.
• 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 98/2013.*

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-Guide for persons drawing up Safety Data Sheets to Regulation (EC) No. 1907/2006 (Regulation (EU) No. 2020/878).

Texts of the regulation mentioned in section 2:*
H315: Causes skin irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H226: Flammable liquid and vapour.
H319: Causes serious 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. 3: H331 Toxic if inhaled.
Acute Tox. 4: H302 Harmful if swallowed.
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin 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 (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
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 occupational
safety training to facilitate understanding and interpretation of the safety data sheet and product label.

Main sources of literature:
http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations used in the text:
Supp.Class.: Supplier Classification
ADR: 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 concentration
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 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
PPM: personal protection measures.
STP: sewage treatment plant
Henry: the solubility of a given component in solution as a function of the partial pressure of that 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
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 the soil
DNEL: Derived no effect level of exposure
PNEC: Predicted no-effect concentration
BDO: registration number from the Waste Database
UFI: unique formulation identifier.
IARC: International Agency for Research on Cancer.

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and national level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The working methods and conditions of users of this product are beyond our knowledge and control, and it is the user's responsibility to take appropriate measures to comply with legal requirements regarding the handling, storage, use and disposal of chemical products. The information contained in this Material Safety Data Sheet relates only to the given product, which must not be used for purposes other than those specified therein.

Changes in the safety data sheet compared to the previous version are marked with the symbol *.
Changes in the content of sections:
1.1, 1.2, 2.1, 2.2, 3.2, 4.1, 5.1, 6.2, 7.1, 8.1, 8.2, 9.1, 9.2, 10.5, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 13.1, 14.7, 15.1, 16.
General update.

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