

ACRYLIC PRIMER FAST 4:1 HS PROFESSIONAL

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

**1.1. Product identification**

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UFI: W301-50TJ-X00G-9SPV

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

Recommended use: Car repair, coating primer. For professional use only.

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

**1.3. Data of the safety data sheet supplier**

Przedsiębiorstwo RANAL Sp. z o.o.

Ul. Łódzka 3

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

Aquatic Chronic 3: Hazardous to the aquatic environment - chronic toxicity, category 3, H412.

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

**2.2. Label elements**

Pictograms:



Signal word: **Warning.**

Risk index:

Aquatic Chronic 3: H412 Harmful to aquatic life with long-lasting effects.

Flam. Liq. 3: H226 Flammable liquid and vapour.

Safety index:

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

P233 Keep container tightly closed. \*

P240 Ground and bond container and receiving equipment. \*

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/respiratory protection/ eye protection / protective footwear. \*

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of the contents/container to containers in accordance with the regulations on hazardous waste or containers and waste 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 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	123-86-4	Butyl acetate <sup>(1)</sup>		5-< 10%
EC:	204-658-1	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning.	
Index	607-025-00-1		ATP CLP00	
REACH:	01-2119485493-29-XXXX			
CAS	13463-67-7	Titanium dioxide (of aerodynamic diameter $\leq 10 \mu\text{m}$ ) <sup>(1)</sup> *		5-< 10%
EC:	236-675-5	Regulation 1272/2008	Carc. 2: H351- Warning.	
Index	022-006-00-2		ATP ATP14	
REACH:	01-2119489379-17-XXXX			

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CAS EC: Index REACH:	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32-XXXX	Xylene <sup>(1)</sup> 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.	5-< 10%
CAS EC: Index REACH:	108-65-6 203-603-9 607-195-00-7 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate <sup>(2)</sup> Regulation 1272/2008	Flam. Liq. 3: H226 - Warning	5-< 10%
CAS EC Index REACH:	7779-90-0 231-944-3 Non applicable 01-2119485044-40-XXXX	Trizinc bis(orthophosphate) <sup>0</sup> Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410– Warning ATP CLP00	<1 %
CAS EC Index REACH:	78-93-3 201-159-0 606-002-00-3 01-2119457290-43-XXXX	Butanone <sup>(2)</sup> Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066– Danger. ATP CLP00	<1 %
CAS EC Index REACH:	64-19-7 200-580-7 607-002-00-6 01-2119475328-30-XXXX	Acetic acid <sup>(2)</sup> Regulation 1272/2008	Flam. Liq. 3: H226; Skin Corr. 1A: H314 – Danger. ATP CLP00	<1 %
CAS EC Index REACH:	14808-60-7 238-878-4 Not applicable Not applicable	Quartz (1% <RCS <10%) <sup>(2)*</sup> Regulation 1272/2008	STOT RE 2: H373– Warning.	<1 %
CAS EC Index REACH:	7664-38-2 231-633-2 015-011-00-6 01-2119485924-24-XXXX	Phosphoric acid (V) <sup>(2) *</sup> Regulation 1272/2008	Skin Corr. 1B: H314 – Danger. ATP CLP00	<1 %

<sup>(1)</sup> The substance poses a risk to health or the environment, meets the criteria set out in Commission Regulation (EU) 2020/878.

<sup>(2)</sup> Substance with the EU workplace exposure limit.

Full text of hazard statements provided in section 11, 12 and 16 of the Sheet.

**Other information\*:**

Identification	Specific concentration limit
Acetic acid CAS: 64-19-7 EC: 200-580-7	% (m/m) >=90: Skin Corr. 1A - H314 25 <= % (m/m) < 90: Skin Corr. 1B- H314 10 <= % (m/m) < 25: Skin Irrit. 2- H315 % (m/m) >=25: Eye Dam. 1- H318 10 <= % (m/m) < 25: Eye Irrit. 2- H319
Phosphoric acid (V) CAS: 7664-38-2 EC: 231-633-2	% (m/m) >=25: Skin Corr. 1B- H314 10 <= % (m/m) < 25: Skin Irrit. 2- H315 % (m/m) >=25: Eye Dam. 1- H318 10 <= % (m/m) < 25: Eye Irrit. 2- H319

**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.

**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 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 (CO<sub>2</sub>) extinguishers.

**Unsuitable extinguishing agents:** IT IS NOT RECOMMENDED to use running water as an extinguishing agent.

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**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**

The product is classified as hazardous to the environment. Prevent contamination of ground and surface waters, watercourses, soil and sewage system. The absorbed product should be stored in tightly closed containers. Notify relevant authorities in the event of exposure of the general public or the environment.

**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. For any product disposal considerations, see section 13.

**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 OF SUBSTANCES AND MIXTURES**

**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:**

Due to the risk this product poses to the environment, it is recommended to handle it in an area that has contamination control sensors in the event of a spillage, and to store absorbent material nearby.

**7.2 Conditions for safe storage, including any incompatibilities**

**A.- Technical aspects of storage:**

Min. temp.: 15°C  
Max. temp.: 25°C  
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.

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**7.3. Special end use (s)**

See section 1.2. \*

**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		
	MPC	MPIC	
Butyl acetate CAS: 123-86-4, EC: 204-658-1			240 mg/m <sup>3</sup>
	MPIC		720 mg/m <sup>3</sup>
Titanium dioxide (of aerodynamic diameter ≤ 10 µm) * CAS: 13463-67-7, EC: 236-675-5			10 mg/m <sup>3</sup>
	MPIC		
Xylene CAS: 1330-20-7, EC: 215-535-7			100 mg/m <sup>3</sup>
	MPIC		200 mg/m <sup>3</sup>
2-methoxy-1-methylethyl acetate CAS: 108-65-6, EC: 203-603-9			260 mg/m <sup>3</sup>
	MPIC		520 mg/m <sup>3</sup>
Butanone CAS: 78-93-3, EC: 201-159-0			450 mg/m <sup>3</sup>
	MPIC		900 mg/m <sup>3</sup>
Acetic acid CAS: 64-19-7, EC: 200-580-7			25 mg/m <sup>3</sup>
	MPIC		50 mg/m <sup>3</sup>
Quartz (1% <RCS <10%)* CAS: 14808-60-7, EC: 238-878-4			0.1 mg/m <sup>3</sup>
	MPIC		
Phosphoric acid (V)* CAS: 7664-38-2 EC: 231-633-2			1 mg/m <sup>3</sup>
	MPIC		2 mg/m <sup>3</sup>

Talc \*[14807-96-6]: inhalable fraction: NDS= 4 mg/m<sup>3</sup> // inhalable fraction: MPC 1 mg/m<sup>3</sup>

**DNEL (Workers):**

Identification		Short-time exposure		Long-time exposure	
		Systemic	Local	Systemic	Local
Butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	No data	No data	No data	No data
	Skin	11 mg/kg *		11 mg/kg *	
	Inhalation	600 mg/m <sup>3</sup> *		600 mg/m <sup>3</sup> *	
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 <sup>3</sup> *	442 mg/m <sup>3</sup> *	221 mg/m <sup>3</sup> *	221 mg/m <sup>3</sup> *
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/kg *	No data
	Inhalation	No data	550 mg/m <sup>3</sup> *	275 mg/m <sup>3</sup> *	No data
Trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3	Oral	No data	No data	No data	No data
	Skin	No data	No data	83 mg/kg	No data
	Inhalation	No data	No data	5 mg/m <sup>3</sup>	No data
Butanone CAS: 78-93-3 EC: 201-159-0	Oral	No data	No data	No data	No data
	Skin	No data	No data	1161 mg/kg	No data
	Inhalation	No data	No data	600 mg/m <sup>3</sup>	No data
Acetic acid CAS: 64-19-7 EC: 200-580-7	Oral	No data	No data	No data	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	25 mg/m <sup>3</sup>	No data	25 mg/m <sup>3</sup>
Phosphoric acid (V)* CAS: 7664-38-2 EC: 231-633-2	Oral	No data	No data	No data	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	2 mg/m <sup>3</sup>	10.7 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

**DNEL (Population):**

Identification		Short-time exposure		Long-time exposure	
		Systemic	Local	Systemic	Local
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 <sup>3</sup> *	300 mg/m <sup>3</sup> *	35.7 mg/m <sup>3</sup> *	35.7 mg/m <sup>3</sup> *
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 <sup>3</sup>	260 mg/m <sup>3</sup>	65.3 mg/m <sup>3</sup> *	65.3 mg/m <sup>3</sup> *
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 <sup>3</sup> *	33 mg/m <sup>3</sup> *
Trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3	Oral	No data	No data	0.83 mg/kg	No data
	Skin	No data	No data	83 mg/kg	No data
	Inhalation	No data	No data	2.5 mg/m <sup>3</sup>	No data
Butanone CAS: 78-93-3 EC: 201-159-0	Oral	No data	No data	31 mg/kg	No data
	Skin	No data	No data	412 mg/kg	No data
	Inhalation	No data	No data	106 mg/m <sup>3</sup>	No data
Acetic acid CAS: 64-19-7 EC: 200-580-7	Oral	No data	No data	No data	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	25 mg/m <sup>3</sup>	No data	25 mg/m <sup>3</sup>
Phosphoric acid (V)* CAS: 7664-38-2 EC: 231-633-2	Oral	No data	No data	0.1 mg/kg	No data
	Skin	No data	No data	No data	No data
	Inhalation	No data	No data	4.57 mg/m <sup>3</sup>	0.36 mg/m <sup>3</sup>

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**PNEC:**

Identification				
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)	0.098 mg/kg *
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
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	No data	Sediment (Sea water)	0.329 mg/kg
Trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3	Sewage treatment plant	0.1 mg/L	Fresh water	0.0206 mg/L
	Soil	35.6 mg/kg	Sea water	0.0061 mg/L
	Intermittent	No data	Sediment (fresh water)	117.8 mg/kg
	Oral	No data	Sediment (Sea water)	56.5 mg/kg
Butanone CAS: 78-93-3 EC: 201-159-0	Sewage treatment plant	709 mg/L	Fresh water	55.8 mg/L
	Soil	22.5 mg/kg	Sea water	55.8 mg/L
	Intermittent	22.5 mg/kg	Sediment (fresh water)	284.74 mg/kg
	Oral	1 g/kg *	Sediment (Sea water)	284.74 mg/kg
Acetic acid CAS: 64-19-7 EC: 200-580-7	Sewage treatment plant	85 mg/L	Fresh water	3.058 mg/L
	Soil	0.47 mg/kg	Sea water	0.306 mg/L*
	Intermittent	30.58 mg/L	Sediment (fresh water)	11.36 mg/kg
	Oral	No data	Sediment (Sea water)	1.136 mg/kg





**8.2. Exposure control**

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



As a preventive measure, it is recommended to use protective clothing marked with the "CE marking". For 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 standards	Note:
 Obligatory respiratory protection	Protective filter mask against gases and vapours (Filter type: A)		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 use of masks *	Filtering mask against particles (Filter type: FFP3)		EN 149:2001+A1:2009	Replace if you notice increasing breathing resistance.

C. - Special hands protection

Pictogram	Protective equipment	Labelling	CEN standards	Note:
 Obligatory hands protection.	Reusable gloves protecting against chemical agents (Material: Nitrile, Breakthrough time: >480 min. Thickness of the material: 0.4 mm)		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 contact of the product with skin.





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 standards	Note:
 Obligatory face protection.	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.

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**E.- Body protection:**

<b>Pictogram</b>	<b>Protective equipment</b>	<b>Labelling</b>	<b>CEN standards</b>	<b>Note:</b>
 Obligatory body protection.	Clothing protecting against chemical hazards, anti-electrostatic and flame-retardant.	 CAT III	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.	Safety footwear protecting against chemical hazards, with antistatic properties and resistant to high temperatures.	 CAT III	EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019 *	In case of any signs of damage replace footwear.

**F. - Additional emergency measures.**

<b>Emergency measures</b>	<b>Standards</b>	<b>Emergency measures</b>	<b>Standards</b>
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011		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): 24.92 % mass\*  
VOC concentration 20°C: 420 kg/m<sup>3</sup> (420 g/L)\*  
Average number of carbons: 6.48  
Average molecular weight: 115.5 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 atmospheric pressure: 128°C \*  
Vapour pressure at 20°C: 1740 Pa \*  
Vapour pressure at 50°C: 8688,25 Pa (8,69 kPa)\*  
Evaporation rate: No data

**Product characteristics:**

Density 20°C: 1500 - 1634 kg/m<sup>3</sup>  
Relative density 20°C: No data  
Dynamic viscosity 20°C: No data  
Kinematic viscosity 20°C: No data  
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  
Explosive properties: No data  
Oxidizing properties: No data

**Flammability:**

Flash point: 32°C \*  
Flammability (solid, gas): No data  
Auto ignition point: 315°C  
Bottom flammability limit: Not specified  
Top flammability limit: Not specified

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**Particle characteristics\*:**

Median equivalent diameter: 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

\* 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.

**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 and 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: Not applicable.  
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 (CO<sub>2</sub>), carbon monoxide and other organic compounds. For more information see section 5.

**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.

**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 effects):**

- Acute toxicity: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous if swallowed. 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. For more information see section 3

**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. For more information see section 3

**C. Contact with skin and eyes (acute effects):**

- Contact with skin: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous in contact with skin. For more information see section 3  
- Contact with eyes: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous. For more information see section 3

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

Carcinogenicity: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous due to effects mentioned before. For more information see section 3

IARC\*: C9 aromatic hydrocarbons (3); Titanium dioxide (aerodynamic diameter ≤ 10 µm) (2B); Soot (2B); Quartz (1% <RCS <10%) (1); Talc (3); Xylene (3)

- 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

-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

**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. The product does not contain substances classified as hazardous. For more information see section 3

**F.- 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

**G. Specific target Organ Toxicity (STOT), repeated exposure:**

- Specific target Organ Toxicity (STOT) repeated exposure: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous. 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 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 inhalation	23.4 mg/L(4)	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
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	
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 (4 h) (ATEi)	
Trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	> 5 mg/L	
Butanone CAS: 78-93-3 EC: 201-159-0	LD50 oral	4000 mg/kg	Rat
	LD50 dermal	6400 mg/kg	Rabbit
	LC50 inhalation	23.5 mg/L (4h)	Rat
Acetic acid CAS: 64-19-7 EC: 200-580-7	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Quartz (1% <RCS <10%)* CAS: 14808-60-7 EC: 238-878-4	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Phosphoric acid (V)* CAS: 7664-38-2 EC: 231-633-2	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	20470 mg/kg	Rabbit
	LC50 inhalation	> 5 mg/L	

**Estimated acute toxicity (ATE mix)\*:**

ATE mix	Components of unknown toxicity	
Oral	>2000 mg/kg (calculation method)	Not applicable.
Skin	14618.5 mg/kg (calculation method)	0 %
Inhalation	146.19 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\*:**

No data.



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**SECTION 12 ECOLOGICAL INFORMATION**

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

**12.1. Toxicity**

Identification	Concentration		Type	Type
Butyl acetate CAS: 123-86-4 EC: 204-658-1	LC50	no data*		
	EC50	no data*		
	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Alga
Xylene CAS: 1330-20-7 EC: 215-535-7	LC50	>10 - 100 mg/L (96 h)*		Fish
	EC50	>10 - 100 mg/L (48 h)*		Crustacea
	EC50	>10 - 100 mg/L (72 h)*		Alga
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacea
	EC50	No data		
Trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacea
	EC50	>0.1 - 1 mg/L (72 h)		Alga
Butanone CAS: 78-93-3 EC: 201-159-0	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacea
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Alga
Acetic acid CAS: 64-19-7 EC: 200-580-7	LC50	75 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	47 mg/L (24 h)	Daphnia magna	Crustacea
	EC50	No data		

**Chronic toxicity\*:**

Identification	Concentration		Type	Type
Butyl acetate CAS: 123-86-4, EC: 204-658-1	NOEC	No data		
	NOEC	23.2 mg/L	Daphnia magna	Crustacea
Xylene CAS: 1330-20-7, EC: 215-535-7	NOEC	1.3 mg/L	Oncorhynchus mykiss	Fish
	NOEC	1.17 mg/L	Ceriodaphnia dubia	Crustacea
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	Crustacea
Acetic acid CAS: 64-19-7, EC: 200-580-7	NOEC	57.2 mg/L	Oncorhynchus mykiss	Fish
	NOEC	80 mg/L	Daphnia magna	Crustacea

**12.2. Persistence and degradability**

**Detailed information on the substances\*:**

Identification	Degradability		Biodegradability:	
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 %
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%
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%.
Butanone CAS: 78-93-3 EC: 201-159-0	BOD5	2.03 g O2/g	Concentration	No data
	COD	2.31 g O2/g	Period	20 days
	BOD/COD	0.88	% biodegradable	89%
Acetic acid CAS: 64-19-7 EC: 200-580-7	BOD5	No data	Concentration	100 mg/L
	COD	No data	Period	14 days
	BOD/COD	No data	% biodegradable	74%.

**12.3. Bioaccumulative potential**

Identification	Bioaccumulative potential	
Butyl acetate CAS: 123-86-4 EC: 204-658-1	PCF	4
	Log POW	1.78
	Potential	Low
Xylene CAS: 1330-20-7 EC: 215-535-7	PCF	9
	Log POW	2.77
	Potential	Low
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	PCF	1
	Log POW	0.43
	Potential	Low
Butanone CAS: 78-93-3 EC: 201-159-0	PCF	3
	Log POW	0.29
	Potential	Low
Acetic acid CAS: 64-19-7 EC: 200-580-7	PCF	3
	Log POW	-0.71
	Potential	Low

**12.4. Mobility in soil**

\*

Identification	Absorption/desorption		Variability	
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)	Of wet soil	No data
Xylene CAS: 1330-20-7 EC: 215-535-7	Koc	202	Henry's constant	524,86 Pa·m <sup>3</sup> /mol
	Conclusions	Medium	Of dry soil	Yes
	Surface tension	No data	Of wet soil	Yes.
Butanone	Koc	30	Henry's constant	5.77 Pa·m <sup>3</sup> /mol

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CAS: 78-93-3 EC: 201-159-0	Conclusions Surface tension	Very high 2,396E-2 N/m (25°C)	Of dry soil Of wet soil	Yes Yes.
Acetic acid CAS: 64-19-7 EC: 200-580-7	Koc Conclusions Surface tension	No data No data 2.699E-2 N/m (25°C)	Henry's constant Of dry soil Of wet soil	No data No data No data

**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 hazardous effects\***

No data.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Dispose of according to applicable local and official waste regulations – see section 15.

Product remains:

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):**

HP14 Ecotoxic, HP3 Flammable

**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.

**SECTION 14 TRANSPORT INFORMATION**

**A. 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

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

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

No data.

**B. Sea transport of dangerous goods:**

According to IMDG 38-16:

**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:	223, 955, 163, 367 *
EmS code:	F-E, S-E
Physico-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.

**C. Air transport of dangerous goods:**

According to the requirements of IATA/ ICAO 2020:

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

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**Seveso III:**

Section P5c  
Description: FLAMMABLE LIQUIDS  
Requirements concerning lower-tier establishments 5000  
Requirements concerning upper-tier 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 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.
- 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 by Rail (COTIF), made in Bern on 9 May 1980 (Journal of Laws 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 98/2013.
- 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**

Not 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. 20120/878)\*.

**Texts of the regulation mentioned in section 2:**

H412: Harmful to aquatic life with long-lasting effects.  
H226: Flammable liquid and vapour.

**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 in contact with skin or if inhaled.  
Aquatic Acute 1: H400 Very toxic to aquatic life.  
Aquatic Chronic 1: H410 Very toxic to aquatic life with long-lasting effects.  
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 Corr. 1A: H314 - Causes serious skin burns and eye damage.  
Skin Corr. 1B: H314 - Causes serious skin burns and eye damage. \*  
Skin Irrit. 2: H315 Causes skin irritation.  
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 SE 3: H335 - May cause respiratory irritation.  
STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification process:**

Aquatic Chronic 3: Calculation method  
Flam. Liq. 3: Calculation method (2.6.4.3.).

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**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  
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 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 and technical knowledge and applicable law at European and national level, and its accuracy cannot be fully guaranteed. This information cannot be treated as a guarantee of the properties of the product, as it is only about the description of safety 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 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, 6.1, 7.3, 8.1, 8.2, 9.1, 9.2, 11.1, 11.2, 12.1, 12.2, 12.4, 12.5, 12.6, 12.7, 13.1, 14.1, 14.6, 14.7, 15.1, 16.  
General update.

Sheet number: 00-0P6L-0123-V3