

ACRYLIC PRIMER MAXI FILLER 5:1**SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION****1.1. Product identification****ACRYLIC PRIMER MAXI FILLER 5:1****1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended use:

Paints and lacquers. For professional users only.

Use 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.**

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SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****Classification 1272/2008/EC:**

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

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

Skin Irrit. 2: Caustic / irritating effect on skin, hazard category 2, H315.

STOT RE 2: Toxic effect on target organs – single exposure, hazard category 2, H373.

2.2. Label elements

Contains:

Xylene

Pictograms:

Warning word: **Warning**

Risk index:

H319	Causes eye irritation.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H373	May cause damage to organs through prolonged or repeated exposure (oral).

Safety index:

P260	Do not breathe dust/fumes/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P501	Dispose of contents/container to containers according to regulations concerning dangerous waste or containers and waste in containers.

2.3. Other hazards

No data.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Product identification

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Chemical description:

Mixture based on chemical products.

Components:

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

Identification		Chemical name/ Classification		Concentration
CAS:	1330-20-7	Xylene		10 -<25%
EC:	215-535-7	Suppl. Class.		
Index:	601-022-00-9	Regulation	Acute Tox. 4: H312+H332; Asp. Tox. 1: H304;	
REACH:	01-2119488216-32-XXXX	1272/2008	Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	
CAS:	123-86-4	n-butyl acetate		5 -<10%
EC:	204-658-1	ATP CLP00		
Index:	607-025-00-1	Regulation	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066	
REACH:	01-2119485493-29-XXXX	1272/2008	- Warning	
CAS:	100-41-4	Ethylbenzene		1 -<2.5%
EC:	202-849-4	ATP CLP00		
Index:	601-023-00-4	Regulation	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam.	
REACH:	01-2119489370-35-XXXX	1272/2008	Liq. 2: H225; STOT RE 2: H373 - Danger	
CAS:	112-07-2	2-butoxyethyl acetate		1 -<2.5%
EC:	203-933-3	ATP CLP00		
Index:	607-038-00-2	Regulation	Acute Tox. 4: H312+H332 - Warning	
REACH:	01-2119475112-47-XXXX	1272/2008		
CAS:	108-65-6	2-methoxy-1-methylethyl acetate		<1%
EC:	203-603-9	ATP CLP00		
Index:	607-195-00-7	Regulation	Flam. Liq. 3: H226 - Warning	
REACH:	01-2119475791-29-XXXX	1272/2008		

More information on hazards caused by the substances – see section 8, 11, 12, 15 and 16 of the sheet.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Poisoning symptoms may occur some time after the exposure, so in case of any doubts, direct exposure to chemical product or long lasting malaise consult a doctor and show him this Material Safety Data Sheet.

Inhalation:

The product is not classified as dangerous if inhaled, but in case of symptoms of poisoning, it is recommended to remove the victim from the area of exposure and ensure fresh air and calmness. If symptoms persist, seek medical attention.

Contact with skin:

The product has not been classified as dangerous in contact with skin. Nevertheless, in case of contact with skin, it is recommended to take off contaminated clothing and shoes, clean the skin and wash the injured in the shower with neutral soap and then rinse abundantly with water. In case of evident symptoms consult a doctor.

Contact with eyes:

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

Ingestion / aspiration:

Do not induce vomiting and if it occurs, keep the head tilted forward to prevent aspiration of stomach contents. Ensure quiet surrounding. Rinse mouth and throat, as most likely have been contaminated by ingestion of the product.

ACRYLIC PRIMER MAXI FILLER 5:1**4.2. Most important symptoms both acute and delayed**

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

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

No data.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

Use powder extinguishers (ABC powder); alternatively use physical foam or fire extinguishers containing carbon dioxide (CO₂). It is NOT RECOMMENDED to use running water as an extinguishing medium.

5.2. Special hazards arising from the substance or mixture

As a result of combustion or thermal decomposition, reaction sub-products are formed that can be highly toxic and, consequently, can pose a serious health risk.

5.3. Advice for firefighters

Depending on the size of the fire, it may be necessary to use complete protective clothing and autonomous breathing equipment. It is necessary to have at disposal a minimum amount of emergency devices and protective measures (fire blankets, first aid kit) in accordance with Directive 89/654/EC.

Additional information:

Act in accordance with the Internal Emergency Plan and information leaflets describing how to deal with accidents and other emergency situations. Disable all ignition sources. In case of fire, cool the vessels and containers used to store products susceptible to ignition, explosion or BLEVE explosion due to high temperatures. Do not allow the products used to extinguish the fire to enter the water tank.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency measures**

Isolate the areas where gas escapes, if this activity does not pose a threat to people who carry it out. Evacuate the area and remove people who do not have adequate protection. In case of any contact with a spilled product, it is necessary to use personal protective equipment (see section 8). First of all prevent the formation of flammable mixtures of air and vapours, both by ventilation and the use of an inertising agent. Disable all ignition sources. Eliminate electrostatic charges by providing grounding and interconnection of all conductive surfaces on which static electricity can be generated.

6.2. Environmental precautions

The product has not been classified as dangerous. Prevent contamination of ground and surface water, waterways, soil and sewage system.

6.3. Methods and materials for containment and cleaning up.

Recommendations:

Absorb spilled product with sand or neutral absorbent and move it to a safe place. Do not use sawdust or other flammable absorbents. All the information on product disposal can be found in section 13 MSDS.

6.4. Reference to other sections

See also sections 8 and 13 MSDS.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES**7.1. Precautions for safe handling**

Precautions necessary for the safe handling of the product

To prevent hazards in the workplace, comply with applicable law. Keep the vessels tightly closed. Control leaks and waste by removing them with safe methods (section 6). Prevent any spontaneous leakage from containers. Keep the area neat and clean when handling hazardous products.

Technical precautions for prevention of fires and explosions

Transfer the product in well ventilated places, if possible by local extraction. Completely control ignition sources (cell phones, sparks) and ventilate the rooms during cleaning. Prevent formation of dangerous atmospheres in containers by using inerting systems if possible. Transfer the product slowly to prevent the formation of electrostatic charges. If there is a possibility of electrostatic charges: ensure complete equalizing connection, always use earthing, do not wear workwear made of acrylic fibers, use cotton clothing and conductive footwear.

Avoid direct contact and spraying the product. The basic safety requirements for equipment and systems set out in Directive 94/9 / EC and the basic provisions for occupational safety and health should be met in accordance with the selection criteria of Directive 1999/92 / EC. Information on the conditions and substances to be avoided can be found in section 10.

Technical precautions for prevention of toxicological hazards.

Do not eat or drink while handling the product. After work wash hands with proper cleaning agent.

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Technical precautions for prevention of environmental hazards:

It is recommended to keep an absorbing agent in the vicinity of the product (see section 6.3 MSDS).

7.2. Conditions for safe storage including any incompatibilities

Technical aspects of storage:

Min. temp.: 5°C

Max. temp.: 35°C

Maximum storage time: 12 months

General storage conditions:

Avoid heat sources, radiation and electrostatics. Store away from food. More information – see section 10.5 MSDS.

7.3. Special end use(s)

Except from the instructions already mentioned, it is not necessary to follow any specific precautions on the use of this product.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION MEASURES

8.1. Control parameters

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

n-butyl acetate		CAS: 123-86-4	EC: 204-658-1
MPC	200 mg/m ³		
MPIC	950 mg/m ³		
year	2015		
Xylene		CAS: 1330-20-7	EC: 215-535-7
MPC	100 mg/m ³		
MPIC	-- mg/m ³		
year	2015		
Ethylbenzene		CAS: 123-86-4	EC: 204-658-1
MPC	200 mg/m ³		
MPIC	400 mg/m ³		
year	2015		
2-butoxyethyl acetate		CAS: 112-07-2	EC: 203-933-3
MPC	100 mg/m ³		
MPIC	300 mg/m ³		
year	2015		
2-methoxy-1-methylethyl acetate		CAS: 108-65-6	EC: 203-603-9
MPC	260 mg/m ³		
MPIC	520 mg/m ³		
year	2015		

DNEL (Workers):

Identification		Short time exposure		Long time exposure	
		Systemic	Local	Systemic	Local
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	No data	No data	No data	No data
	Dermal	No data	No data	180 mg/kg	No data
	Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m ³	No data
n-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	No data	No data	No data	No data
	Dermal	No data	No data	No data	No data
	Inhalation	960 mg/m ³	960 mg/m ³	480 mg/m ³	480 mg/m ³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	No data	No data	No data	No data
	Dermal	No data	No data	180 mg/m ³	No data
	Inhalation	No data	293 mg/m ³	77 mg/m ³	No data
2-buthoxethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	No data	No data	No data	No data
	Dermal	102 mg/kg	No data	102 mg/kg	No data
	Inhalation	775 mg/m ³	333 mg/m ³	133 mg/m ³	No data
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	No data	No data	No data	No data
	Dermal	No data	No data	153,5 mg/kg	No data
	Inhalation	No data	No data	275 mg/m ³	No data

DNEL (Population):

Identification		Short time exposure		Long time exposure	
		Systemic	Local	Systemic	Local
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	No data	No data	1.6 mg/kg	No data
	Dermal	No data	No data	108 mg/kg	No data
	Inhalation	No data	No data	14.8 mg/m ³	No data
n-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	No data	No data	No data	No data
	Dermal	No data	No data	No data	No data
	Inhalation	859.7 mg/m ³	859.7 mg/m ³	102.34 mg/m ³	102.34 mg/m ³

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Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	No data	No data	1.6 mg/kg	No data
	Dermal	No data	No data	No data	No data
	Inhalation	No data	No data	15 mg/m ³	No data
2-buthoxethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	18 mg/kg	No data	4,3 mg/kg	No data
	Dermal	27 mg/kg	No data	36 mg/kg	No data
	Inhalation	499 mg/m ³	166 mg/m ³	67 mg/m ³	No data
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	No data	No data	1.67 mg/kg	No data
	Dermal	No data	No data	54.8 mg/kg	No data
	Inhalation	No data	No data	33 mg/m ³	No data

PNEC:

Xylene CAS: 1330-20-7 EC: 215-535-7	Sewage treatment plant	6.58 mg/L	Fresh water	0.327 mg/L
	Soil	2.31 mg/kg	Marine water	0.327 mg/L
	Intermittent	0.327 mg/L	Sediment (Fresh water)	12.46 mg/kg
	Ingestion	No data	Sediment (Marine water)	12.46 mg/kg
n-butyl acetate CAS: 123-86-4 EC: 204-658-1	Sewage treatment plant	35.6 mg/L	Fresh water	0.18 mg/L
	Soil	0.0903 mg/kg	Marine water	0.018 mg/L
	Intermittent	0.36 mg/L	Sediment (Fresh water)	0.981 mg/kg
	Ingestion	No data	Sediment (Marine water)	0.0981 mg/kg
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Sewage treatment plant	9.6 mg/L	Fresh water	0.1 mg/L
	Soil	2.68 mg/kg	Marine water	0.01 mg/L
	Intermittent	0.1 mg/L	Sediment (Fresh water)	13.7 mg/kg
	Ingestion	20 g/kg	Sediment (Marine water)	1.37 mg/kg
2-butoxyethyl acetate CAS: 141-78-6 EC: 205-500-4	Sewage treatment plant	90 mg/L	Fresh water	0.304 mg/L
	Soil	0.68 mg/kg	Marine water	0.0304 mg/L
	Intermittent	0.56 mg/L	Sediment (Fresh water)	2.03 mg/kg
	Ingestion	60 g/kg	Sediment (Marine water)	0.203mg/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	Marine water	0.0635 mg/L
	Intermittent	6.35 mg/L	Sediment (Fresh water)	3.29 mg/kg
	Ingestion	No data	Sediment (Marine water)	0.329 mg/kg

8.2. Exposure control

General measures of safety and hygiene in a workplace

As a precautionary measure, it is recommended to use protective clothing marked with the "CE marking". More information on protective clothing (storage, use, cleaning, maintenance, protection class ...) can be obtained in the information brochure provided by the manufacturer of protective clothing. The instructions in this section apply to the pure product. The directions for the thinned product may vary depending on the degree of thinning, use, application method, etc. In determining the obligation to install emergency showers and / or eye rinsers in warehouses, provisions regarding the storage of chemical products will be taken into account. More information can be found in sections 7.1 and 7.2 MSDS.

All the information contained in this section – due to the lack of information concerning protective equipment of the company – shall be treated as recommendation for prevention of hazards when working with the product.

Respiratory protection.

In case of formation of vapours or when the maximum permissible concentration is exceeded, it is necessary to use protective clothing.

Hand protection:



Obligatory hand protection.

Equipment	Marking	CEN Standards	Remarks
Gloves protecting from less serious hazards.			Gloves should be replaced if any signs of damage occur. During periods of prolonged exposure to the product of professional / industrial users it is recommended to use gloves CE III in accordance with EN 420 and EN 374.

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Eye and face protection:



Obligatory face protection.

Equipment	Marking	CEN Standards	Remarks
Panoramic glasses protecting against liquid drops.		EN 166:2001 EN ISO 4007:2012	Clean every day and disinfect according to the producer's recommendations.

Body protection:



Obligatory body protection.

Equipment	Marking	CEN Standards	Remarks
Protective clothing, anti-electrostatic and flame-retardant.		EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2008/AC:2009 EN 1149-5:2008	Limited protection against fire.



Obligatory feet protection.

Equipment	Marking	CEN Standards	Remarks
Safety footwear – anti-electrostatic and resistant to high temperatures.		EN 13287:2008 EN ISO 20345:2011	In case of any signs of damage change footwear.

Additional emergency protective measures:

Emergency measures	Standards	Emergency measures	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Rinsing equipment	DIN 12 899 ISO 3864-1:2002

Environmental exposure control:

Pursuant to the Community law on environmental protection, it is recommended not to allow the product and its packaging to enter the environment. For more information see section 7.1 of the Sheet.

Volatile Organic Compounds:

According to national requirements, this product has the following properties:

VOC (content): no data
Density VOC 20°C: 538 g/l
Average carbon content: no data
Average molecular weight: no data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical appearance:

Physical state 20°C

Appearance

Colour

Odour

liquid
highly viscous
colour measurement system
characteristic

Volatility:

Boiling point at pressure

Vapour pressure 20°C

Vapour pressure 50°C

Evaporation rate 20°C

136°C
873 Pa
4569 Pa (5 kPa)
no data*

Product characteristic:

Density 20°C

1643 kg/m³

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Relative density 20°C	1.643
Dynamic viscosity 20°C	no data*
Kinematic viscosity 20°C	no data*
Kinematic viscosity 40°C	>20.5 cSt
Vapour density (with regard to air)	no data*
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*
Pressure in container	no data*
Explosive properties	no data*
Oxidizing properties	no data*

Flammability:

Flash point	26°C
Autoignition point	300°C
Bottom explosion limit	no data*
Top explosion limit	no data*

* No information on hazards caused by the product.

9.2. Other information

Surface tension 20 °C	no data*
Refractive index	no data*

* No information on 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 MSDS.

10.2. Chemical stability

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 and store at room temperature.

Shocks and friction:	not applicable
Contact with the air:	not applicable
Heating:	risk of ignition
Sunlight:	avoid direct sunlight
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

For detailed information on decomposition products read sections 10.3, 10.4 and 10.5. Depending on the conditions of decomposition, as a result, complex mixtures of chemical substances may be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds. See section 5 for more information.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

There is no experimental data on toxicological effects of the product.

Contains glycols; there is possibility of health- hazardous effects, so it is recommended not to inhale its vapour for too long.

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Health hazard:

In case of repeated or prolonged exposure or concentrations exceeding occupational exposure limits, side effects may occur depending on the way of exposure:

Ingestion (acute effects):

- Acute toxicity: Based on available data, the classification criteria are not met, but the product contains substances classified as dangerous if swallowed. See section 3 for more information.
- Caustic/Irritating: Swallowing a significant dose of the product may cause irritation of the throat, abdominal pain, dizziness and vomiting.

Inhalation (acute effects):

- Acute toxicity: Based on available data, the classification criteria are not met, but the product contains substances classified as dangerous if inhaled. See section 3 for more information.
- Caustic/Irritating: Based on available data, the classification criteria are not met. The product does not contain any substances classified as dangerous. See section 3 for more information.

Contact with skin and eyes (acute effects):

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

CMR effects (carcinogenicity, mutagenicity and harmful effect on reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. The product does not contain any substances classified as dangerous because of the effect mentioned above. See section 3 for more information.
- May cause genetic defects: Based on available data, the classification criteria are not met. The product does not contain any substances classified as dangerous. See section 3 for more information.
- May damage fertility: Based on available data, the classification criteria are not met. The product does not contain any substances classified as dangerous. See section 3 for more information.

Allergic effects:

- Respirable: Based on available data, the classification criteria are not met. The product does not contain any substances classified as dangerous because of their allergic effects. See section 3 for more information.
- Skin: Based on available data, the classification criteria are not met. The product does not contain any substances classified as dangerous. See section 3 for more information.

Toxic effect on target organs (STOT) exposure time:

Based on available data, the classification criteria are not met, but the product contains substances classified as dangerous if inhaled. See section 3 for more information.

Toxic effect on target organs (STOT), repeated exposure:

- Toxic effect on target organs (STOT), repeated exposure: If swallowed repeatedly, it causes side effects by negatively affecting the nervous system and causes headaches, nausea, dizziness, vomiting, lack of clarity of mind, and in severe cases leading to loss of consciousness.
- Skin: Based on available data the classification criteria are not met, but the product contains substances classified as dangerous in case of repeated exposure. See section 3 for more information.

Aspiration hazard:

Based on available data the classification criteria are not met. The product does not contain any substances classified as dangerous. See section 3 for more information.

Other informations:

No data.

Detailed toxicological data of the substances:

Identification	Acute toxicity		Type
n-butyl acetate CAS: 123-86-4 EC: 204-658-1	LD50 Oral	12789 mg/kg	Rat
	LD50 Dermal	14112 mg/kg	Rabbit
	LC50 Inhalation	23.4 mg/L (4h)	Rat
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 Oral	2100 mg/kg	Rat
	LD50 Dermal	1100 mg/kg (ATEi)	Rat
	LC50 Inhalation	11 mg/L (4h) (ATEi)	
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 Oral	3500 mg/kg	Rat
	LD50 Dermal	15354 mg/kg	Rabbit
	LC50 Inhalation	17.2 mg/L (4h)	Rat
2-butoxyethyl acetate CAS: 141-78-6 EC: 205-500-4	LD50 Oral	2100 mg/kg	Rat
	LD50 Dermal	1480 mg/kg	Rabbit
	LC50 Inhalation	11 mg/L (4h)	Rat
2-methoxy-1-methyl ethyl 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

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SECTION 12: ECOLOGICAL INFORMATION

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

12.1. Toxicity

Identification	Acute toxicity		Type	Type
Xylene CAS: 1330-20-7 EC: 215-535-7	LC50	13.5 mg/L (96h)	<i>Oncorhynchus mykiss</i>	Fish
	EC50	0.6 mg/L (96h)	<i>Gommarus lacustris</i>	Crustacea
	EC50	10 mg/L (72h)	<i>Skeletonema costatum</i>	Alga
n-butyl acetate CAS: 123-86-4 EC: 204-658-1	LC50	62 mg/L (96h)	<i>Leuciscus idus</i>	Fish
	EC50	73 mg/L (24h)	<i>Daphnia magna</i>	Crustacea
	EC50	675 mg/L (72h)	<i>Scenedesmus subspicatus</i>	Alga
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LC50	42.3 mg/L (96h)	<i>Pimephales promelas</i>	Fish
	EC50	75 mg/L (48h)	<i>Daphnia magna</i>	Crustacea
	EC50	63 mg/L (3h)	<i>Chlorella vulgaris</i>	Alga
2-butoxyethyl acetate CAS: 141-78-6 EC: 205-500-4	LC50	80 mg/L (48h)	<i>Leuciscus idus</i>	Fish
	EC50	37 mg/L (48h)	<i>Daphnia magna</i>	Crustacea
	EC50	500 mg/L (72h)	<i>Scenedesmus subspicatus</i>	Alga
2-methoxy-1-methyl ethyl CAS: 108-65-6 EC: 203-603-9	LC50	161 mg/L (96h)	<i>Pimephales promelas</i>	Fish
	EC50	481 mg/L (48h)	<i>Daphnia sp.</i>	Alga
	EC50	No data		

12.2. Persistence and degradability

Identification	Degradability		Biodegradability	
n-butyl acetate CAS: 123-86-4 EC: 204-658-1	BOD5	No data	Concentration	No data
	COD	No data	Time	5 days
	BOD5/COD	0.79	% biodegradable	84 %
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BOD5	No data	Concentration	100 mg/L
	COD	No data	Time	14 days
	BOD5/COD	No data	% biodegradable	90 %
2-butoxyethyl acetate CAS: 141-78-6 EC: 205-500-4	BOD5	No data	Concentration	30 mg/L
	COD	No data	Time	28 days
	BOD5/COD	0.51	% biodegradable	77.3 %
2-methoxy-1-methyl ethyl acetate CAS: 108-65-6 EC: 203-603-9	BOD5	No data	Concentration	785 mg/L
	COD	No data	Time	8 days
	BOD5/COD	No data	% biodegradable	100 %

12.3. Bioaccumulative potential

Identification	Bioaccumulative potential	
Xylene CAS: 1330-20-7 EC: 215-535-7	BCF	9
	Log POW	2.77
	Potential	Low
n-butyl acetate CAS: 123-86-4 EC: 204-658-1	BCF	4
	Log POW	1.78
	Potential	Low
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BCF	1
	Log POW	3.15
	Potential	Low
2-butoxyethyl acetate CAS: 141-78-6 EC: 205-500-4	BCF	3
	Log POW	1.51
	Potential	Low
2-methoxy-1-methyl ethyl acetate CAS: 108-65-6 EC: 203-603-9	BCF	1
	Log POW	0.43
	Potential	Low

12.4. Mobility in soil

Identification	Absorption/ desorption		Variability	
n-butyl acetate CAS: 123-86-4 EC: 204-658-1	Koc	No data	Henre's constant	No data
	Conclusions	No data	Dry soil	No data
	Surface tension	2.478E-2 N/m (25°C)	Wet soil	No data
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Koc	520	Henre's constant	7.984E+2 Pa·m ³ /mol
	Conclusions	medium	Dry soil	Yes
	Surface tension	2.859N/m (25°C)	Wet soil	Yes

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2-buthoxyethyl acetate CAS: 141-78-6 EC: 205-500-4	Koc	No data	Henre's constant	5.532E-1 Pa·m ³ /mol
	Conclusions	No data	Dry soil	No
	Surface tension	No data	Wet soil	Yes

12.5. Results of PBT and vPvB assesment

Not applicable.

12.6. Other hazardous effects

Not specified.

SECTION 13: DISPOSAL CONSIDERATIONS

Code	Description	Waste type (Commission Regulation (EU) 1357/2014)
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances	Dangerous

Waste type (Commission Regulation (EU) 1357/2014):

HP3 Flammable,

HP4 Irritating — irritating to skin and causing serious eye damage,

HP5 Toxic effect on target organs (STOT) or aspiration hazard.

Waste management (disposal and evaluation):

Hand over for disposal to a specialized company authorized to assess and dispose of wastes according to Annex 1 and Annex 2 (Directive of the European Parliament and of the Council 2008/98/EC) and OJ 2013 no 0 item 21. According to code 15 01 (2014/955/UE), if the container is in direct contact with the product, it should be treated like the product. Otherwise it should be treated as non – dangerous. It is advised not to let it into waterways. See subsection 6.2.

Provisions regarding waste management:

According to Annex II to the Regulation (EC) no 1907/2006 (REACH) Community or national provisions related to waste management have been adopted.

Community provisions:

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

SECTION 14: TRANSPORT INFORMATION

Road transport of dangerous goods:

As required by ADR 2017 and RID 2017.

14.1. UN number

UN1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class (-es)

3

Labels: 3



14.4. Packaging group

III

14.5. Environmental hazards

No.

14.6. Special precautions for user

Special precautions for users:

163, 367, 640E, 650

Tunnel restriction code:

D/E

Physical and chemical properties:

See section 9 MSDS

Limited quantity:

5 L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code

No data.

Marine transport of dangerous goods:

As required by IMDG 38-16.

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14.1. UN number

UN1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class (-es)

3

Labels: 3



14.4. Packaging group

III

14.5. Environmental hazards

No.

14.6. Special precautions for users

Special precautions for users:

163, 223, 955

EmS codes:

F-E, S-E

Physical and chemical properties:

See section 9 MSDS.

Limited quantity:

5 L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code

No data.

Air transport of dangerous goods:

As required by IATA/ICAO 2017.

14.1. UN number

UN1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class (-es)

3

Labels: 3



14.4. Packaging group

III

14.5. Environmental hazards

No

14.6. Special precautions for users

Physical and chemical properties:

See section 9 MSDS.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code

No data.

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

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

No data.

Specific provisions for the protection of people or the environment:

It is recommended to use the information included in this safety data sheet as preliminary data to estimate local hazards in order to take the necessary steps to prevent the risk concerning handling, as well as its use, storage and disposal.

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 793/93 and Commission Regulation (EC) No 1488/94 as well as Council

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Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Official Journal of EU L 136 of May 29 2007. Official Journal of EU L 304 of November 22 2007, Official Journal of EU L268 of October 09 2008, Official Journal of EU L 46 of February 17 2009, Official Journal of EU L164 of June 26 2009, Official Journal of EU L133/1 of May 31 2010 with later amendments.

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 with later amendments.

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.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: OTHER INFORMATION

Regulations concerning Material Safety Data Sheet:

This sheet has been prepared in accordance with ANNEX II-Guide for persons preparing Material Safety Data Sheets – to Regulation (EC) No 1907/2006 (Regulation (EC) No 453/2010, Regulation (EU) No 2015/830).

Changes in comparison with previous material safety data sheet affecting risk management:

Sections: 1.3, 6.1, 7.2.

Phrases of the Regulation mentioned in section 2:

H315	Causes skin irritation.
H373	May cause damage to organs through prolonged or repeated exposure (Oral).
H226	Flammable liquid and vapours.
H319	Causes eye irritation.

Phrases of the Regulation mentioned in section 3:

The given phrases do not apply to the product itself; they are given for information purposes only and refer to individual components appearing in Chapter 3.

Regulation no 1272/2008 (CLP):

Acute Tox. 4: H312+H332	Harmful in contact with skin or if inhaled.
Acute Tox. 4: H332	Harmful if inhaled.
Asp. Tox. 1: H304	May be fatal if swallowed and enters airways.
Eye Irrit. 2: H319	Causes eye irritation.
Flam. Liq. 2: H225	Highly flammable liquid and vapours.
Flam. Liq. 3: H226	Flammable liquid and vapours.
Skin Irrit. 2: H315	Causes skin irritation.
STOT RE 2: H373	May cause damage to organs through prolonged or repeated exposure.
STOT RE 2: H373	May cause damage to organs through prolonged or repeated exposure (Oral)
STOT SE 3: H335	May cause respiratory irritation.
STOT SE 3: H336	May cause drowsiness or dizziness.

Classification process:

Skin Irrit. 2	Calculation system.
STOT RE 2	Calculation system.
Flam. Liq. 3	Calculation system (2.6.4.3.).
Eye Irrit. 2	Calculation system.

Recommendations concerning training of staff:

It is recommended for the staff working with the product to be trained at the basic level in the field of work safety to facilitate understanding and interpretation of the material safety data sheet and product label.

Main literature sources:

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

Abbreviations used in the text:

Supp. class.:	Supplier classification.
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
IMDG:	International Maritime Dangerous Goods Code.
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
COD:	Chemical Oxygen Demand (COD).

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BZT:	Biochemical Oxygen Demand (BOD) in 5 days.
BCF:	bioconcentration coefficient.
Log POW:	log octanol/water partition coefficient.
MPC:	maximum permissible concentration.
MPIC:	maximum permissible instantaneous concentration.
EC50:	effective concentration (component concentration, at which 50% of its maximal effect on organisms is observed at a given time).
LD50:	median lethal dose.
LC50:	median lethal concentration.
EC50:	median effective concentration.
PBT:	bioaccumulative potential of toxic substances.
vPvB:	very high bioaccumulative potential of toxic substances.
PPM:	personal protection measures.
STP:	sewage treatment plants.
Henry:	solubility of a given component in the solution depending on the partial pressure of this component above the solution.
EC:	EINECS and ELINCS number (see also EINECS and ELINCS).
EINECS:	European Inventory of Existing Chemical Substances.
ELINCS:	European List of Notified Chemical Substances.
CEN:	European Committee for Standardization.
STOT:	toxic effect on target organs.
Koc:	partition coefficient normalized to the organic carbon content that determines the degree of absorption of organic substances in soil.
DNEL:	derived no-effect level.
PNEC:	predicted no-effect concentration.

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