ACRYLIC PRIMER HARDENER FAST 4:1 PROFESSIONAL

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

1.1. Product ID
ACRYLIC PRIMER HARDENER FAST 4:1 PROFESSIONAL UFI:
EAY0-M0M0-6001-AQF9

1.2. Identified uses of the substance or mixture that are relevant and uses not recommended
Identified uses: Hardener (component B) for acrylic primer FAST 4:1. For professional use in car repainting.
Non-recommended uses: No information available.

1.3. Details of the safety data sheet provider

RANAL Sp. z o.o.
3 Łódzka Street
42-240 Rudniki k. Częstochowy

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

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

Distributor : Ada Color Ltd. 176
Brezovsko Shose Street, 4003
Plovdiv, Bulgaria
Mobile: +359896663052
Tel: +35932940456
Fax:+35932940457
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1.4. Emergency phone number
+48 34 329 45 03 (from 8:00 to 15:00).
Further information: Bulgaria:
Toxicology Clinic at the Ni.I. Pirogov Hospital for Active
Treatment of Sick Patients Emergency Phone:
+359 02 9154 409 (during standard working hours except Saturday and Sunday)
+359 02 9154 346 (continuous service)

SECTION 2: DESCRIPTION OF HAZARDS

2.1. Classification of the substance or mixture

Regulation No 1272/2008 (CLP):
The classification of this product was carried out in accordance with Regulation No 1272/2008 (CLP).
Acute Tox. 4: Acute toxicity (inhalation), hazard category 4, H332
Aquatic Chronic 3: Hazardous to the aquatic environment – chronic hazard, category 3, H412
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 Skin Sens. 1: Skin Sensitisation, Hazard Category 1, H317
STOT RE 2: STOT (specific organ toxicity) – repeated exposure, hazard category 2, H373
STOT SE 3: STOT (Specific Organ Toxicity) – Single Exposure, Hazard Category 3, Respiratory Irritation, H335

2.2. Elements of the label

Regulation No 1272/2008

(CLP):
Pictograms:

Signal word: **Attention.**

Hazard warnings:
H332 Harmful by inhalation.
H412 Harmful to aquatic organisms, with a long-lasting effect. H319 It causes serious eye irritation.
H226 Flammable liquid and vapors.
H315 It causes skin irritation.
H317 May cause an allergic skin reaction.

H373 May cause organ damage with prolonged or repeated exposure. H335 It can cause irritation of the respiratory tract.

Safety recommendations:
P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Smoking is prohibited.
P280 Use protective gloves/protective clothing/safety goggles/protective face mask. P302+P352: IN CASE OF SKIN CONTACT: wash thoroughly with water.
P304+P340: WHEN INHALING: Bring the face to fresh air and place it in a position that facilitates breathing.
P305+P351+P338: ON CONTACT WITH EYES: rinse gently with water for several minutes. Remove contact lenses, if any, and as far as possible. Continue rinsing.
P403+P233: Store in a well-ventilated area. Store the container tightly closed.
P501: Dispose of the contents/container in containers in accordance with the Hazardous Waste or Containers and Waste in Containers Act.

Additional information:
EUH204: Contains isocyanates. It can cause an allergic reaction.

Substances that affect classification:
Xylene; Hexamethylene diisocyanate, oligomers; ethylbenzene; Hexane-1,6-diyl diisocyanate

Additional information:
As of August 24, 2023, appropriate training prior to industrial or professional use is required.

2.3. Other hazards

The substances used do not meet the PBT/vPvB criteria. It does not contain substances that disrupt the endocrine system.

SECTION 3: COMPOSITION/INGREDIENT INFORMATION

3.1. Substances
Not applicable

3.2. Mixtures

Chemical description: A mixture based on chemical products.
Ingredients:
In accordance with Annex II to Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical Name/Classification		Concentration
CAS:1330-20-7 EC: 215-535-7 Zip Code: 601-022-00-9 REACH:01-2119488216-32-XXXX	Xylene(1)		25 - <50 %
	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 – Опасност; Клас на accessibility	
CAS: 28182-81-2 EC: 931-274-8 Index: Not applicable REACH:01-2119485796-17- XXXX	Hexamethylene diisocyanate, oligomeri(1)		25 - <50 %
	Regulation 1272/2008	Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335 – Attention; Classification. Availability.	
CAS:108-65-6 EC:203-603-9 Zip Code: 607-195-00-7 REACH:01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate(2)		5 - <10 %
	Regulation 1272/2008	Flam. Liq. 3: H226 – Внимание; ATP ATP01	
	Butyl acetate(1)		5 - <10 %
CAS:123-86-4 EC:204-658-1 Zip Code: 607-025-00-1 REACH:01-2119485493-29-XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 – Внимание; ATP CLP00	
	Ethylbenzene(1)		5 - <10 %
CAS:100-41-4 EC:202-849-4 Zip Code: 601-023-00-4 REACH:01-2119489370-35- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 – Опасност; ATP ATP06	
	Hexan-1,6-diyl diisocyanate(1)		<1 %
CAS:822-06-0 EC:212-485-8	Regulation	Acute Tox. 3: H331; Eye irritation. 2: H319; Resp. Sens. 1: H334; Skin irritation. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 – Опасност;	

Zip Code: 615-011-00-1 REACH:01-2119457571-37-XXXX	1272/2008	ATP CLP00	

(1) The substance poses a risk to health or the environment and fulfils the criteria laid down in Commission Regulation (EU) 2020/878
(2) Substance with maximum occupational concentration determined at Union level

For more information on the hazards posed by substances, see sections 11, 12 and 16. Other information:

Identification	Specific concentration limit
Hexan-1,6-diyl diisocyanate CAS: 822-06-0 EC: 212-485-8	% (m/m) >=0.5: Resp. Sense 1 - H334 % (m/m) >=0.5: Skin Sens. 1 - H317

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

Identification	Acute toxicity		Type
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 orally	Not applicable	
	LD50 dermal	1100 mg/kg	Rat
	LC50 on vapor inhalation	17 mg/L	Rat
Hexamethylene diisocyanate, Oligomery CAS: 28182-81-2 EC: 931-274-8	LD50 orally	Not applicable	
	LD50 dermal	Not applicable	
	LC50 on vapor inhalation	11 mg/L	
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 orally	Not applicable	
	LD50 dermal	Not applicable	
	LC50 on vapor inhalation	17.2 mg/L	Rat
Hexan-1,6-diyl diisocyanate CAS: 822-06-0 EC: 212-485-8	LD50 orally	Not applicable	
	LD50 dermal	Not applicable	
	LC50 on vapor inhalation	3 mg/L	

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

Symptoms of poisoning may appear only after exposure, so if in doubt, consult a doctor immediately. exposure to the chemical product or prolonged malaise, consult a doctor and show him the product safety data sheet.

Inhalation:
Take the victim out of the exposure area, provide him with fresh air and rest. In severe cases, i.e. cardiac and respiratory arrest, apply artificial respiration (mouth-to-mouth, cardiac massage, oxygen therapy, etc.) and seek medical attention immediately.

In case of skin contact:
Remove contaminated clothes and shoes, clean the skin or wash the victim with neutral soap, rinsing thoroughly with lukewarm water. For severe symptoms, seek medical attention. If the mixture has caused burns or frostbite, do not remove the victim's clothing, as this may result in further injury if the clothes are stuck to the skin. If blisters appear on the skin, do not pierce them, as this can increase the risk of infection.

Eye contact:
Rinse the eyes thoroughly with room temperature water for 15 minutes. If the victim wears contact lenses, remove them unless they are stuck to the eye, as this may result in further injury. In all cases, after washing the victim, consult a doctor as soon as possible and show him the product safety data sheet.

By ingestion/aspiration:
Do not induce vomiting, but if vomiting occurs, keep the head tilted forward to prevent aspiration of gastric contents. Keep the affected person calm. Rinse the mouth and throat as they are likely to be contaminated if ingested.

4.2. Most significant acute symptoms and effects that occur after a certain period of time

Acute and delayed effects of exposure are listed in Sections 2 and 11.*

4.3. Indication of the need for any emergency medical care and special treatment

Not applicable.

SECTION 5: FIRE MEASURES

5.1. Suitable fire extinguishing means:
Foam Fire Extinguisher (AB), Dust Extinguisher (ABC), Carbon Dioxide Fire Extinguisher (BC).*
Unsuitable fire extinguishing equipment: Water jet

5.2. Particular hazards arising from the substance or mixture
Combustion or thermal decomposition produces reaction by-products that can be highly toxic and therefore pose a serious health hazard.*

5.3. Tips for firefighters
Depending on the size of the fire, it may be necessary to use full protective clothing and an autonomous breathing apparatus. There must be a minimum amount of emergency equipment and measures (fire blankets, first aid kit) in accordance with Directive 89/654/EC.
Additional provisions:
Act in accordance with the internal contingency plan and information brochures describing the procedure in case of accidents and other emergencies. Eliminate all ignition sources. In the event of a fire, refrigerate containers and containers used to store products that are susceptible to ignition, explosion, or BLEVE due to high temperatures. Do not allow products used to extinguish the fire to fall into the water tank.

SECTION 6: EMERGENCY RELEASE MEASURES

6.1. Personal protective equipment, protective equipment and emergency procedures

For personnel not responsible for emergencies:
Ensure the leakage of the product, provided that this does not pose a risk to the persons performing the operation. Evacuate the area and remove persons who do not have adequate protective equipment. In case of possible contact with a spilled product, personal protective equipment must be used (see section 8). First of all, prevent the formation of flammable mixtures of air and vapors, both by ventilation and by the use of an inert agent. Remove all ignition sources.
Remove static electricity by making sure that all conductive surfaces on which static electricity can accumulate are grounded and connected to each other.

For those responsible for emergencies:
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. Do not allow contamination of groundwater, surface water, water bodies, soil and sewage systems. Store the absorbed product in tightly closed containers. Notify the competent authorities in case of exposure to the general public or the environment.*

6.3. Methods and materials for restraint and cleaning
Recommended:
Do not allow the product to get into sewer systems, sewers or bodies of water. Absorb the spill with sand or inert absorbent and move it to a safe place. Do not absorb with sawdust or other combustible absorbents. Collect the product in suitable containers and handle it in accordance with the applicable regulations.
Spills in water or sea:
Small spills: Limit spills with barriers or similar equipment. Use appropriate absorbents to collect and dispose of waste in accordance with applicable regulations.
Large spills: If possible, limit spills into open water with barriers or similar equipment. If this is not possible, try to control its spread and collect the product with appropriate mechanical means.
Always consult with experts before using dispersants and make sure you have the necessary permits. Handle waste in accordance with applicable regulatory requirements.

6.4. Reference to other sections
Personal protective equipment – see section 8 of the safety data sheet. Waste disposal – see section 13 of the safety data sheet.

SECTION 7: OPERATION AND STORAGE

7.1. Safe Operation Precautions

A. Precautions necessary for safe handling of the product.
Comply with applicable laws and regulations to prevent workplace hazards. Keep
Keep containers tightly closed. Control spills and waste by removing them with safe methods (section 6). Prevent spontaneous leakage from containers. Maintain order and cleanliness when handling hazardous products.
B. Technical recommendations for the prevention of fires and explosions.

Transfer to well-ventilated areas using local aspiration whenever possible. Fully control the ignition sources (mobile phones, sparks) and ventilate the premises during cleaning. Prevent hazardous atmospheres from forming in containers by using inertisation systems whenever possible. Transfer slowly to prevent static electricity from accumulating. If static electricity is likely to occur: ensure full equipotential connection, always use grounded equipment, do not wear acrylic fiber work clothes, wear cotton clothing and conductive shoes. Avoid direct contact and spraying of the product. The basic safety requirements for equipment and systems set out in Directive 2014/34/EC (Regulation of the Minister for the Economy of 22 December 2005, Official Gazette 2005 No 263, paragraph 2203) and the basic provisions on safety and protection of health at work in accordance with the selection criteria of Directive 1999/92/EC (Regulation of the Minister of the Economy of 8 July 2010, Official Gazette 2010 No 138, paragraph 931). Information on the conditions and substances to be avoided can be found in Section 10.

C.-Technical recommendations for the prevention of toxicological hazards.

Do not eat or drink while handling the product; Wash your hands with a suitable detergent after finishing work.

D. Technical recommendations for the prevention of environmental hazards.

Due to the risk this product poses to the environment, it is recommended to operate it in a location that has sensors to control pollution in the event of a spill and to store absorbent materials nearby.

7.2. Safe storage conditions, including incompatibilities

A.-Special storage requirements Min.
Temperature: 15 ºC
Max. temperature: 25 ºC Maximum
term: 12 months
B. General Storage Conditions.
Avoid sources of heat, radiation, and electrostatic discharge. Store away from food items. For further information, see section 10.5.*

7.3. Specific end-use(s)

See Section 1.2.*

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTIVE EQUIPMENT

8.1. Control parameters

Occupational exposure limits for the following substances should be controlled: Official Gazette 2018, paragraph 1286, as amended:*

Identification	Standard environmental quality limits		
Xylene [(1)] CAS: 1330-20-7 EC: 215-535-7	NDS		100 mg/m³
	NDSCh		200 mg/m
2-methoxy-1-methylethyl acetate [(1)] CAS: 108-65-6 EC: 203-603-9	NDS		260 mg/m³
	NDSCh		520 mg/m
Butyl acetate CAS: 123-86-4 EC: 204-658-1	NDS		240 mg/m³
	NDSCh		720 mg/m
Ethylbenzene [(1)] CAS: 100-41-4 EC: 202-849-4	NDS		200 mg/m³
	NDSCh		400 mg/m
Hexan-1,6-dilyl diisocyanate CAS: 822-06-0EC: 212-485-8	NDS		0,04 mg/m
	NDSCh		0.08 mg/m³

[(1)] Leather

DNEL (Workers)*:

		Short-term exposure		Long-term exposure	
Identification		Systemic	Local	Systemic	Local
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Each	Not applicable	Not applicable	212 mg/kg	Not applicable
	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
Hexamethylene diisocyanate, Oligomery CAS: 28182-81-2 EC: 931-274-8	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Each	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	1 mg/m³	Not applicable	0.5 mg/m³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Each	Not applicable	Not applicable	796 mg/kg	Not applicable
	Inhalation	Not applicable	550 mg/m³	275 mg/m³	Not applicable
Butyl acetate	Oral	Not applicable	Not applicable	Not applicable	Not applicable

CAS: 123-86-4 EC: 204-658-1	Everyone	11 mg/kg	Not applicable	11 mg/kg	Not applicable
	Inhalation	600 mg/m³	600 mg/m³	300 mg/m³	300 mg/m³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Each	Not applicable	Not applicable	180 mg/kg	Not applicable
	Inhalation	Not applicable	293 mg/m³	77 mg/m³	Not applicable
Hexan-1,6-diyl diisocyanate CAS: 822-06-0 EO: 212-485-8	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Each	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	0.07 mg/m³	Not applicable	0.035 mg/m³

DNEL (population)*:

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Not applicable	Not applicable	12,5 mg/kg	Not applicable
	Everyone	Not applicable	Not applicable	125 mg/kg	Not applicable
	Inhalation	260 mg/m³	260 mg/m³	65.3 mg/m³	65.3 mg/m³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Not applicable	Not applicable	36 mg/kg	Not applicable
	Each	Not applicable	Not applicable	320 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	33 mg/m³	33 mg/m³
Butyl Acetate CAS: 123-86-4 EC: 204-658-1	Oral	2 mg/kg	Not applicable	2 mg/kg	Not applicable
	Everyone	6 mg/kg	Not applicable	6 mg/kg	Not applicable
	Inhalation	300 mg/m³	300 mg/m³	35.7 mg/m³	35.7 mg/m³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Not applicable	Not applicable	1,6 mg/kg	Not applicable
	Everyone	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	Not applicable	15 mg/m³	Not applicable

PNEC:*

Identification				
Xylene CAS: 1330-20-7 EC: 215-535-7	Wastewater Treatment Plant	6.58 mg/L	Fresh water	0.327 mg/L
	Soil	2,31 mg/kg	Sea water	0.327 mg/L
	Accidentally	0.327 mg/L	Sediment (fresh water)	12,46 mg/kg
	Oral	Not applicable	Sediment (seawater)	12,46 mg/kg
Hexamethylene diisocyanate, Oligomery CAS: 28182-81-2 EC: 931-274-8	Wastewater Treatment Plant	88 mg/L	Fresh water	0.127 mg/L
	Soils	53 183 mg/kg	Sea water	0.013 mg/L
	Accidentally	1.27 milligrams per liter	Sediment (fresh water)	266 701 mg/kg
	Oral	Not applicable	Sediment (seawater)	26670 mg/kg
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Wastewater Treatment Plant	100 mg/L	Fresh water	0.635 mg/L
	Soil	0,29 mg/kg	Sea water	0.064 mg/L
	Accidentally	6.35 mg/L	Sediment (fresh water)	3,29 mg/kg
	Oral	Not applicable	Sediment (seawater)	0,329 mg/kg
Butyl Acetate CAS: 123-86-4 EC: 204-658-1	Wastewater Treatment Plant	35.6 mg/L	Fresh water	0.18 mg/L
	Soil	0,09 mg/kg	Sea water	0.018 mg/L
	Accidentally	0.36 mg/L	Sediment (fresh water)	0,981 mg/kg
	Oral	Not applicable	Sediment (seawater)	0,098 mg/kg
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Wastewater Treatment Plant	9.6 mg/L	Fresh water	0.1 mg/L
	Soil	2,68 mg/kg	Sea water	0.01 mg/L
	Accidentally	0.1 mg/L	Sediment (fresh water)	13,7 mg/kg
	Oral	0.02 g/kg	Sediment (seawater)	1,37 mg/kg
Hexan-1,6-diyl diisocyanate CAS: 822-06-0 EC: 212-485-8	Wastewater Treatment Plant	8.42 mg/L	Fresh water	Not applicable
	Soil	Not applicable	Sea waters	Not applicable
	Accidentally	Not applicable	Sediment (fresh water)	Not applicable
	Oral	Not applicable	Sediment (seawater)	Not applicable

8.2. Exposure control

A. Individual protective measures, such as personal protective equipment

In line with the Regulation on the control of exposure at work, local ventilation is recommended as a collective measure to protect the workplace to prevent exceeding the maximum permissible concentration. If protective clothing is used, it must be marked with the "CE marking". For more information on protective clothing (storage, use, cleaning, maintenance, protection class, etc.), please refer to the information brochure provided by the manufacturer of the protective clothing. The instructions provided herein apply to the pure product. Instructions for the diluted product may vary depending on the degree of dilution, use, method of application, etc. When determining the obligation to install emergency showers and/or eyewash stations in storage rooms, the provisions for the storage of chemical products must be taken into account. For more information, see Sections 7.1 and 7.2.
All information in this section should be considered as a recommendation to prevent hazards when working with the product, as there is no information available about the protective equipment owned by the company.*

B. Airway protection.*

Pictogram	Protective equipment	Labels	Стандарти CEN	Zablezhki
 Mandatory respiratory protection	Filtering mask that protects against gases and vapors	CE CAT III	EN 405:2002+A1:2010	If the smell or taste of the product penetrates the mask or clutch, replace the mask. If the contaminant does not have obvious warning properties, the use of isolation equipment is recommended.

C.-Special hand protection.*

Pictogram	Protective equipment	Marking	Стандарти CEN	Zablezhki
 Mandatory hand protection.	Reusable gloves that protect against chemical agents (Material: nitrile, puncture time: > 480 min., Material thickness: 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 specified by the manufacturer must be longer than the use time of the product. Do not use protective creams after the product has come into contact with the skin.

D.-Protection of the eyes and face.

Pictogram	Protective equipment	Labels	Стандарти CEN	Zablezhki
 Mandatory face protection.	Panoramic glasses against splashes of liquids and/or fevers.	CE CAT II	EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect regularly according to the manufacturer's instructions. Recommended for use at risk of liquid splashes.

E.-Body protection.

Pictogram	Protective equipment	Labels	Стандарти CEN*	Zablezhki
 Mandatory body protection.	Clothing that protects against chemical hazards, is antistatic and fire-resistant.	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	For professional use only. Clean regularly in accordance with the manufacturer's instructions.
 Mandatory leg protection.	Protective footwear that protects against chemical hazards, has antistatic properties and is resistant to high temperatures.	CE CAT III	EN ISO 13287:2020 EN ISO 20345:2022 EN 13832-1:2019	Change shoes if there are signs of damage.

F.-Additional emergency protective measures.

Emergency measures	Standards	Emergency measures	Standards
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011		DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Emergency shower cabin		Eye Wash Station	

Environmental Exposure Control:
According to Community environmental law, it is recommended that the product and its packaging are not released into the environment. For further information, see section 7.1.*

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about the main physical and chemical properties

Appearance:

State of Aggregation 20°C	liquid
Appearance	liquid*
Colour	achromatic*
Smell	Characteristic*
Odor threshold	Not applicable*

Volatility:

Boiling point at atmospheric pressure:	137ºC*
Vapor pressure at 20 °C	788 Pa*
Vapor pressure at 50°C	4219,1 Pa (4,22 kPa)*
Evaporation rate	Not applicable*

Product Features:

Density at 20 °C	960 kg/m³* Relative density at 20 °C 0.96*
Dynamic viscosity at 20°C	3000 mPas*
Kinematic viscosity at 20°C	3126,45 mm²/s*
Kinematic viscosity at 40°C	Not applicable*
Concentration	Not applicable*
pH	Not applicable*
Relative vapor density at 20 °C, not applicable*	N-
octanol/water partition coefficient 20 °C not applicable* Solubility in water at 20 °C	Not
applicable*	
Degree of solubility	Not applicable*
Decomposition temperature	Not applicable*
Melting/freezing point	Not applicable*

Flammability of materials:

Flame Temperature	26ºC*
Flammability of materials (solid, gaseous)	Not applicable*
Self-ignition temperature	315ºC*
Lower limit of explosiveness	Not applicable*
Upper limit of explosiveness	Not applicable *

Particle characteristics:

Average equivalent diameter	Not applicable*

9.2. Other information

Information in relation to physical hazard classes:

Explosive properties:	Not applicable*
Oxidation properties:	Not applicable*
Substances causing corrosion of metals:	Not applicable*
Heat of combustion:	Not applicable*
Aerosols – total percentage by mass of flammable components:	Not applicable*

Other safety features:

Surface tension at 20ºC:	Not applicable*
Refractive index:	Not applicable*

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

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
The product is not reactive under storage and handling conditions. See section 7 of the safety data sheet.*

10.2. Chemical stability
Chemically stable under storage and use conditions.

10.3. Possibility of dangerous reactions
None if the product is stored and handled in accordance with the recommendations.

10.4. Conditions to be avoided Use and store at room temperature. Shock and Friction: Not applicable. Air contact: Not applicable. Heat: Risk of ignition. Sunlight: Avoid direct exposure. Humidity: Not applicable.*

10.5. Incompatible materials
Heartburn: Avoid severe heartburn. Water: Not applicable.
Oxidizers: Avoid direct exposure. Flammable materials: Not applicable.
Other: Avoid strong foundations. *

10.6. Dangerous decay products
For detailed information on decomposition products, see Sections 10.3, 10.4 and 10.5. Depending on the conditions of decomposition, complex mixtures of chemicals can 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 set out in Regulation (EC) No 1272/2008
There are no empirical data on the toxicological properties of the product.

Health hazard:
Repeated, prolonged exposure or concentrations higher than established occupational exposure limits may experience health side effects depending on the route of exposure:
A-Ingestion (acute effect):
- Acute toxicity: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous if ingested. For more information, see Section 3.
- Corrosive/irritating: Ingestion of a significant amount of the product may cause throat irritation, abdominal pain, dizziness and vomiting.

B-Inhalation (Acute Effects):
- Acute toxicity: Exposure to high doses can adversely affect the nervous system, causing headaches, nausea, dizziness, vomiting, confusion and, in severe cases, loss of consciousness.
- Corrosive/irritating: Causes irritation of the airways, which is usually reversible and limited to the upper airways.

C-Skin and eye contact (acute effects):
- Skin contact: On contact, it causes dermatitis. - Eye contact: Eye contact causes damage. D-CMR effects (carcinogenicity, mutagenicity and reproductive toxicity):
- Carcinogenicity: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous due to the above effects. For more information, see Section 3.
IARC: Xylene (3); Ethylbenzene (2B)
- May cause genetic defects: Based on the available data, the classification criteria are not met because it does not contain substances classified as hazardous to the environment. For more information, see Section 3.
- May impair fertility: Based on the available data, the classification criteria are not met because the product does not contain substances classified as hazardous to the environment. For more information, see Section 3.

E-sensitizing effects:
- Respiratory: Based on the 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.
- Skin: Prolonged contact with the product may lead to allergic contact dermatitis. F-Specific Organ Toxicity (STOT) for Single Exposure:
It causes irritation of the airways, which is usually reversible and limited to the upper respiratory tract.

G-Specific Organ Toxicity (STOT), repeated exposure:
- Specific Organ Toxicity (STOT), Repeated Exposure: Exposure to high doses can adversely affect the nervous system, causing headaches, nausea, dizziness, vomiting, confusion and, in severe cases, loss of consciousness.
- Leather: Based on the available data, the classification criteria are not met, but the product contains substances classified as hazardous by repeated exposure. For more information, see Section 3.

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

Other information:
Not applicable

Detailed toxicological information on substances:

Identification	Acute toxicity		Type
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LD50 orally	8532 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rat
	LC50 on vapor inhalation	30 mg/L (4 h)	Rat
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 orally	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 on vapor inhalation	17 mg/L	Rat
Hexamethylene diisocyanate, oligomery CAS: 28182-81-2 EC: 931-274-8	LD50 orally	5100 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 on vapor inhalation	11 mg/L	
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 orally	3500 mg/kg	Rat
	LD50 dermal	15 354 mg/kg	Rabbit
	LC50 on vapor inhalation	17.2 mg/L	Rat
Butyl Acetate CAS: 123-86-4 EC: 204-658-1	LD50 orally	12 789 mg/kg	Rat
	LD50 dermal	14 112 mg/kg	Rabbit
	LC50 on vapor inhalation	23.4 mg/L (4 ч)	Rat
Hexan-1,6-diyl diisocyanate CAS: 822-06-0 EC: 212-485-8	LD50 orally	>2000 mg/kg	
	LD50 dermal	➢ 2000 mg/kg	
	LC50 on vapor inhalation	3 mg/L	

Expected acute toxicity (ATE mixture):*

	ATE blend	Ingredients of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	0%
Dermal	2693,11 mg/kg (Method of calculation)	0%
LC50 Vapor Inhalation	16,27 mg/L (4 h) (Calculation method)	0%

11.2. Information on other hazards

Endocrine disrupting properties

It does not contain substances that disrupt the endocrine system.

Other information

Not applicable

SECTION 12: ENVIRONMENTAL INFORMATION

There are no empirical data on the ecotoxicological properties of the mixture itself.
Harmful to aquatic organisms, causes long-term effects.

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)		Crustaceans
	EC50	>10 - 100 mg/L (72 h)		Algae
Hexamethylene diisocyanate, oligomery CAS: 28182-81-2 EC: 931-274-8	LC50	Not applicable		
	EC50	Not applicable		
	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
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	Crustacean
	EC50	Not applicable		
Butyl acetate CAS: 123-86-4 EC: 204-658-1	LC50	Not applicable		
	EC50	Not applicable		
	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
Etilbenzen	LC50	42.3 mg/L (96 h)	Pimephales promelas	Fish
	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae

Long-term 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
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
Butyl acetate	NOEC	Not applicable		
CAS: 123-86-4 EC: 204-658-1	NOEC	23.2 mg/L	Daphnia magna	Crustacean
Etilbenzen	NOEC	Not applicable		
CAS: 100-41-4 EC: 202-849-4	NOEC	0.96 mg/L	Ceriodaphnia dubia	Crustacean

12.2. Resistance and degradability:
Detailed information on the substance: *

Identification	Gradiability		Biodegradability	
Xylene	BOD5	Not applicable	Concentration	Not applicable
CAS: 1330-20-7	COD	Not applicable	Period	28 days
EC: 215-535-7	BPC5/ COD	Not applicable	% biodegradability	88
2-methoxy-1-methylethyl	BOD5	Not applicable	Concentration	785 mg/L
acetate CAS: 108-65-6	COD	Not applicable	Period	8 days
EC: 203-603-9	BPC5/COD	Not applicable	% biodegradability	100
Butyl Acetate	BOD5	Not applicable	Concentration	Not applicable
CAS: 123-86-4	COD	Not applicable	Period	5 days
EC: 204-658-1	BPC5/CODE	Not applicable	% biodegradability	84
Ethylbenzene	BOD5	Not applicable	Concentration	100 mg/L
CAS: 100-41-4	COD	Not applicable	Period	14 days
EC: 202-849-4	BPC5/COD	Not applicable	% biodegradability	90
Hexan-1,6-diyl diisocyanate	BOD5	Not applicable	Concentration	100 mg/L
CAS: 822-06-0	COD	Not applicable	Period	28 days
EC: 212-485-8	BPC5/COD	Not applicable	% biodegradability	28

12.3. Bioaccumulative capacity Detailed information on the substance*

Identification	Bioaccumulation potential	
Xylene	BCF	9
CAS: 1330-20-7	Log POW	2,77
EC: 215-535-7	Potential	Low
2-methoxy-1-methylethyl	BCF	1
acetate CAS: 108-65-6	Log POW	0,43
EC: 203-603-9	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

12.4. Soil Transferability *

Identification	Absorption/desorption		Volatility	
Xylene	Blanket	20	Henry's constant	524.86 Pa·m³/mol
CAS: 1330-20-7	Conclusion	Medium	Dry soil	Yes
EC: 215-535-7	Surface tension	Not applicable	Moist soil	Yes
Butyl Acetate	Blanket	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)	Moist soil	Not applicable
Ethylbenzene	Blanket	520	Henry's constant	798.44 Pa·m³/mol
CAS: 100-41-4	Conclusion	Average	Dry soil	Yes
EC: 202-849-4	Surface tension	2,859E-2 N/m (25 ºC)	Moist soil	Yes

12.5. PBT and vPvB Evaluation Results
The substances used do not meet the PBT/vPvB criteria.*

12.6. Endocrine disrupting properties
It does not contain substances that disrupt the functions of the endocrine system.

12.7. Other adverse effects
No data available.

SECTION 13: WASTE DISPOSAL

13.1. Waste disposal methods
Code
08 01 11Paint and varnish waste containing organic solvents or other hazardous substances Substances 15
01 10Packages containing residues of hazardous substances or contaminated with hazardous substances

Type of waste (Commission Regulation (EU) No 1357/2014): Hazardous

Type of waste (Commission Regulation (EU) No 1357/2014):
HP14 Ecotoxic, HP3 Flammable, HP5 Specific Organ Toxicity (STOT) or Inhalation Hazard Aspiration, HP6 Acute Toxicity, HP13 Sensitizing, HP4 Irritant — Irritates the skin and causes eye damage. **Waste management (disposal and assessment):**
They must be handed over to a specialised company authorised to assess and dispose of waste in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC of the European Parliament and of the Council) and Official Gazette 2023, paragraph 1587. In accordance with code 15 01 (2014/955/EU), if the container is in direct contact with the product, it must be treated in the same way as the product. Otherwise, it must be treated as non-hazardous waste. Disposal in water bodies is not recommended. See section 6.2.
Provisions on waste management:
In accordance with Annex II to Regulation (EC) No 1907/2006 (REACH), Community or national provisions relating to waste management have been adopted.
Community law: Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014 National legislation:
Law of 13 June 2013 on the management of packaging and packaging waste (i.e. Official Gazette 2023, paragraph 1658). Law of 14 December 2012 on waste (i.e. Official Gazette 2023, paragraph 1587).*

SECTION 14: TRANSPORT INFORMATION
Road transport of dangerous goods:
In accordance with the requirements of ADR 2023 and RID 2023:

14.1. UN List Number or Identification Number
UN1263*

14.2. Exact name of the shipment on the UN list
PAINT*

14.3. Transport hazard class(s)
3
Labels:
3

14.4. Packing group
III

14.5. Environmental hazards
Not

14.6. Special precautions for consumers
Special provisions:163, 367, 650 Tunnel
Restriction Code:D/E
Physical and chemical properties:see section 9 Limited quantity:5 L

14.7. Maritime transport of cargo in bulk according to instruments of the International Maritime Organization
Not applicable

Sea transport of dangerous goods:*
In accordance with the requirements of IMDG 41-22:

14.1. UN List Number or Identification Number

UN1263*

14.2. Exact name of the shipment on the UN list

Paint*

14.3. Transport hazard class(s)

3

Tags: 3

14.4. Packing group
III

14.5. Environmental hazards
Not

14.6. Special precautions for consumers* No

Special provisions: 223, 955, 163, 367
EMS кодове:F-E, S-E
Physical and chemical properties: see section 9 Limited quantity:5L
Division group: Not applicable

14.7. Maritime transport of cargo in bulk according to instruments of the International Maritime Organization
Not applicable

Air transport of dangerous goods:
In accordance with the requirements of IATA/ICAO 2024:

14.1 United Nations List Number or Identification Number
UN1263*

14.2. Exact name of the shipment on the UN list
Paint

14.3. Transport hazard class(s)
3
Labels:
3

14.4. Packing group
III

14.5. Environmental hazards
Not

14.6. Special precautions for consumers* Physical and chemical properties: see section 9

14.7. Maritime transport of cargo in bulk according to instruments of the International Maritime Organization
Not applicable

SECTION 15: INFORMATION ON THE REGULATORY FRAMEWORK

15.1. Substance or mixture-specific safety, health and environmental legislation/legislation

- 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 on exports and imports of hazardous chemicals: Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable
- Substances subject to authorisation in accordance with Regulation (EC) No 1907/2006 (REACH): Not applicable
- Substances listed in Annex XIV to REACH (Authorisation List) and expiry date: Not applicable

Seveso III: P5c FLAMMABLE LIQUIDS

Restrictions on the sale and use of certain hazardous substances and mixtures (Annex XVII REACH, etc.):
Cannot be used in:
—decorative products intended to create light or colour effects using different phases, e.g. in decorative lamps and ashtrays,
—tricks and jokes,
—games intended for one or more participants, or articles intended for such use, whether or not for decorative purposes. They contain diisocyanates in a concentration greater than 0.1 % by weight. 1. They may not be used as substances alone, as constituents of other substances or in mixtures for industrial and professional use after 24 August 2023, unless:
(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or
(b) the employer or self-employed worker shall ensure that industrial or professional users have been trained in the safe use of diisocyanates before using those substances or mixtures.
2. They may not be placed on the market as stand-alone substances, as ingredients of other substances or in mixtures for industrial and professional use after 24 February 2022, unless:
(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or
(b) the supplier shall ensure that the consignee of substances or mixtures receives information about the requirements referred to in point 1(b) and shall affix the following declaration on the packaging in such a way as to clearly distinguish it from the rest of the information on the label:
'From 24 August 2023, appropriate training shall be required prior to industrial or professional use. professional use.'
3. For the purposes of this point, 'industrial and professional users' means any employee or self-employed person who uses diisocyanates, alone or as an ingredient of other substances or in mixtures, for industrial and professional applications, or who controls such activities.
4. The training referred to in point 1(b) shall include instructions on the control of exposure to diisocyanates through the skin and respiratory tract at the workplace, without prejudice to national exposure limits or other appropriate risk management measures at national level. Such training should be carried out by a health and safety professional with a qualification obtained through appropriate vocational training. The training must cover at least:
(a) the training elements listed in point 5(a) for all industrial and professional uses (b) the training elements listed in point 5(a) and (b) for the following uses:
— handling mixtures in open containers at room temperature (including foam tunnels),
— spraying in a ventilated cabin,
— With the help of a squirrel,
— application with a brush,
— application by immersion and pouring,
— machining (e.g. cutting) of not fully cured articles that are no longer warm,
— cleaning and disposal of waste,
— any other applications with similar exposure to the skin or respiratory tract
(c) the training elements listed in points 5(a), (b) and (c) for the following annexes:
— working with articles that are not fully cured (e.g. recently cured and still warm),
— Foundry applications,
— maintenance and repair requiring access to equipment,
— open treatment of hot or hot detergents (> 45 °C),
— outdoor spraying, with limited ventilation or only natural ventilation (including large industrial halls) or high-energy spraying (e.g. foam, elastomers),
— and any other applications with similar exposure to the skin or respiratory tract.
5. Components of the training:
(a) general training, including online training, on the following topics:
— chemistry of diisocyanates,
— toxicity-related hazards (including acute toxicity),
— exposure to diisocyanates,
— permissible exposure limits in the workplace,
— how sensitization occurs,
— smell as an indicator of danger,
— the importance of volatility for the development of hazards,
— viscosity, temperature and molecular weight of diisocyanates,
— personal hygiene,
— necessary personal protective equipment, including practical instructions on their proper use and limitations,
— risk of skin contact and airway exposure,
— risks associated with the application process used,

— skin and respiratory protection system,
— ventilation,
— cleaning, spills, maintenance,
— disposal of empty packages,
— protection of bystanders,
— identification of critical stages of product processing,
— specific national code systems (where applicable),
— behavioural safety,
— a certificate or document confirming the successful completion of the training (b)
intermediate training, including online training, on the following topics:
— additional aspects of behavioural safety,
— maintenance
— change management,
— assessment of existing safety instructions,
— risks associated with the application process used,
— a certificate or document confirming the successful completion of the training (c)
further training, including online training, on the following topics:
— additional certification required for specific applications covered by the training,
— spraying outside the chamber,
— open treatment of hot or hot detergents (> 45 °C)
— a certificate or document confirming the successful completion of the training.
6. The training must comply with the rules laid down by the Member State in which the industrial or professional users. Member States may introduce or continue to apply their national requirements for the use of substances and mixtures, provided that the minimum requirements set out in points 4 and 5 are complied with.
7. The provider referred to in point 2(b) shall ensure that the recipient receives the training materials and receives the training in accordance with points 4 and 5 in the official language(s) of the Member State(s) to which the substances or mixtures are supplied. The training takes into account the specific characteristics of the products supplied, including their composition, packaging and intended use.
8. The employer or self-employed person shall document the completion of the training referred to in points 4 and 5. The training shall be repeated at least every five years.
9. In the reports submitted pursuant to Article 117(1), Member States shall include the following information on: (a) any training requirements and other risk management measures established in relation to the industrial and occupational use of diisocyanates under national law
(b) the number of reported and recognized cases of occupational asthma and occupational respiratory diseases and occupational skin diseases associated with diisocyanates
(c) national exposure limits for diisocyanates, if any, (d) information on the enforcement activities related to that limitation.
10. This restriction applies without prejudice to other Union provisions on the protection of the safety and health of workers at work.
Specific provisions for the protection of people or the environment:
It is recommended that the information collected in this safety data sheet be used as preliminary data for local risk assessment, in order to take the necessary measures 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 it.
Council Regulation (EEC) No 793/9/3 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and 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.
Law of 25 February 2011 on chemical substances and mixtures thereof (i.e. Official Gazette 2022, paragraph 1816). Communication of the Minister for the Economy, Labour and Social Policy of 28 August 2003 on the publication of the consolidated text of the Ordinance of the Minister for Labour and Social Policy on the general rules on safety and health at work (Official Gazette 2003 No 169, paragraph 1650, as amended).
Regulation of the Minister of Health of 2 February 2011 on the testing and measurement of factors harmful to health in the working environment (i.e. Official Gazette 2023, paragraph 419).
Law of 14 December 2012 on waste (i.e. Official Gazette 2023, paragraph 1587). Law of 9 October 2015 on biocidal products (i.e. Official Gazette 2021, paragraph 24).
Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative limit values for occupational exposure pursuant to Council Directive 98/24/EC on the protection of the health and safety of workers from the risks associated with chemical agents at work.
Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative limit values for occupational exposure for the application 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 limit values for professional exposure for the application of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.
Law of 19 August 2011 on the transport of dangerous goods (Official Gazette 2024, paragraph 643).
Government statement of 22 May 2013 on the entry into force of amendments to the Regulations concerning the International Carriage of Goods

dangerous goods by rail (RID) constituting Annex C to the Convention concerning International Carriage by Rail (COTIF), drawn up in Bern on 9 May 1980 (Official Gazette of 2013, paragraph 840).
Regulation of the Minister for the Economy of 10 October 2013 on the application of the restrictions set out in Annex XVII to Regulation 1907/2006 (i.e. Official Gazette 2018, paragraph 1865).
Law of 13 June 2013 on the management of packaging and packaging waste (i.e. Official Gazette 2023, paragraph 1658). Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 concerning the placing on the market and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing
Regulation (EU) No 98/2013.
Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Official Gazette 2020, paragraph 10). Government statement of 18 February 2019 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on 30 September 1957 (Official Gazette 2023, paragraph 891).
Law of 15 May 2015 on substances that deplete the ozone layer and on certain fluorinated greenhouse gases (i.e. Official Gazette 2020, paragraph 2065).
Regulation of the Minister for Health of 30 December 2004 on health and safety at work related to the presence of chemical agents in the workplace (i.e. Official Gazette 2016 No 0, paragraph 1488).
Law of 29 July 2005 on combating drug addiction (i.e. Official Gazette 2023, paragraph 172).
Regulation of the Minister for Health of 24 July 2012 on chemical substances, their mixtures, agents or technological processes with carcinogenic or mutagenic effects in the working environment (Official Gazette 2024, paragraph 156).
Ordinance of the Minister for Family, Labour and Social Policy of 12 June 2018 on maximum permissible concentrations and intensities of factors harmful to health in the working environment (Official Gazette 2018, paragraph 1286, as amended).
Ordinance of the Minister of Development of 8 August 2016 on the limitation of emissions of volatile organic compounds contained in certain paints and varnishes intended for painting buildings and their finishing elements, equipment and elements related to buildings and those structural elements, as well as in mixtures for the recovery of vehicles (Official Gazette 2016, Pc. 0, paragraph 1353).
Ordinance of the Minister of Climate of 24 September 2020 on emission standards for certain types of installations, fuel combustion sources and waste incineration or co-incineration installations (State Gazette 2020, issue 1860).*

15.2. Safety assessment of the chemical or mixture
It has not been performed.

SECTION 16: FRIEND INFORMATION

Rules on safety data sheets:
This safety data sheet has been prepared in accordance with ANNEX II – Guidelines for the compilers of safety data sheets to Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Texts of the Regulation referred to in Section 2:
H315: Causes skin irritation.
H335: May cause respiratory irritation.
H373: May cause organ damage from prolonged or repeated exposure. H412: Harmful to aquatic organisms, with a long-lasting effect.
H317: May cause allergic skin reaction. H332: Harmful by inhalation.
H226: Flammable liquid and vapors.
H319: Causes serious eye irritation.
Texts of the Regulation referred to in Section 3:
These phrases do not refer to the product itself, but are for informational purposes only and refer to specific ingredients listed in Chapter 3.
Regulation No 1272/2008 (CLP):
Acute Tox. 3: H331 - Toxic if inhaled.
Acute Tox. 4: H312+H332 – Harmful by skin contact or inhalation. Acute Tox. 4: H332 - Harmful by inhalation.
Aquatic Chronic 3: H412 - Harmful to aquatic organisms, with a long-lasting effect.
Asp. Tox. 1:H304 – Can be deadly if ingested and entered the respiratory tract. Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 2: H225 - Highly flammable liquid and vapors.
Flam. Liq. 3: H226 - Flammable liquid and vapors.
Resp. Sens. 1: H334 - May cause allergic or asthmatic symptoms or breathing difficulties when inhaled. Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause organ damage from prolonged or repeated exposure. STOT SE 3: H335 - May cause irritation of the respiratory tract.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification process: Skin Irrit. 2: Calculation method STOT SE 3: Calculation method STOT RE 2: Calculation method
Aquatic Chronic 3: Calculation Method

Skin Sens. 1: Acute Tox Calculation
Method. 4: Calculation method
Flam. Liq. 3: Calculation method (2.6.4.3.)
Eye Irrit. 2: Calculation method

Staff Training Tips:
It is recommended that personnel who will come into contact with this product undergo basic occupational safety training to facilitate the 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:
Class. Source: Supplier Classification
ADR: International Convention for the 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
Consumption (COD)
BOD: Biochemical Oxygen Consumption (BODn) for 5 days
BCF: Bioconcentration factor
Log POW: logarithm of octanol/water partition coefficient NDS: Maximum
allowable concentration
NDSCh: maximum allowable instantaneous concentration
EC50: effective concentration (concentration of a component at which 50% of organisms show an effect within a certain time)
LD50: average lethal dose
LC50: average lethal concentration EC50:
average effective concentration
PBT: bioaccumulative potential of toxic substances
vPvB: very high bioaccumulative potential of toxic substances PPE: personal
protective equipment
STP: wastewater treatment plants
Henry: solubility of a component in solution depending on the partial pressure of that component above the EC solution: EINECS
and ELINCS number (see also EINECS and ELINCS)
EINECS: European Register of Existing Commercial Chemicals
ELINCS: European List of Notified Chemicals CEN: European Committee for Standardization STOT: specific toxicity for
target bodies
Koc: partition coefficient normalised to organic carbon content determines the degree of absorption of organic matter into the soil
DNEL: derivative level without effect
PNEC: predicted concentration with no effect on the environment
BDO: UFI waste database registration number: unique identifier
of the active form
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources and technical knowledge, as well as on applicable European and national legislation, and its accuracy cannot be fully guaranteed. This information cannot be considered as a guarantee of the properties of the product, as it is only a description of the safety requirements. The methods and working conditions of users of this product are beyond our knowledge and control, so the user is responsible for taking appropriate measures to comply with legal requirements regarding the handling, storage, use and disposal of chemical products. The information contained in this safety data sheet applies only to the product in question, which must not be used for purposes other than those specified therein.

Changes to the previous version of the safety data sheet are marked with an asterisk (*). Changes to the

content of sections:
1.1, 2.1, 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 6.1, 6.2, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 9.2, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 13.1, 14.1, 14.2, 14.6, 15.1, 16.
General update.

Safety Data Sheet Number: 09-0P1L-3025-V4