

SAFETY DATA SHEET

EU format in accordance with Commission Regulation (EU) 2020/878

Date of preparation: 4.05.2012

Date of revision: 8 09.2025

Version: 5

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product ID****ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1 UFI:**
28T0-R0VK-300U-9K2G**1.2. Identified uses of the substance or mixture that are relevant and uses not recommended**

Use of the substance/mixture (professional user): Car repair For professional users only. *

Uses that are not recommended: There are no uses that are not recommended.

1.3. Detailed information on the provider of the safety data sheet**RANAL Sp. z o.o.**Hive. Łódzka 3
42-240 Rudniki k. Częstochowy

Phone: +48 34 329 45 03

Registration number: 000029202

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

Ada Color Ltd.
Ul. 176 Brezovsko Shose
Street, 4003 Plovdiv, Bulgaria
Mobile: +359896663052
Tel: +35932940456
Fax: +35932940457
web: adacolor-bg.com**1.4. Emergency phone number**

112 (general emergency telephone number), 998 (fire), 999 (ambulance)

+ 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 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:

H226 Flammable liquid and vapors.

H315 It causes skin irritation.

H317 It can cause an allergic skin reaction.

H335 It can cause irritation of the respiratory tract.

H373 May cause organ damage with prolonged or repeated exposure. H332

Harmful if inhaled.

H319 It causes serious eye irritation.

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

H412 Harmful to aquatic organisms, with a long-lasting effect.

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 off with plenty of water.
P304+P340 WHEN INHALING: Bring your face to fresh air and place it in a position that facilitates breathing.
P305+P351+P338 IN 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 accordance with the Hazardous Waste Act or the containers and waste in the containers.

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

Substances that affect classification:
Xylene; hexamylene 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 Index No: 601-022-00-9 Registration number: 01-2119488216-32-XXXX	Xylene¹		25 - <50 %
	Regulation 1272/2008	Acute toxicity 4: H312+H332; Chronic toxicity to the aquatic environment 3: H412; Ingestion toxicity 1: H304; Eye irritation 2: H319; Flammable liquid 3: H226; Skin irritation 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	
CAS: 28182-81-2* EC: 931-274-8* Index number: not applicable* Registration number: 01-2119485796-17-XXXX*	Hexamethylene diisocyanate, oligomery¹		25 - <50 %
	Regulation 1272/2008	Acute toxicity 4: H332; Skin sensitivity 1: H317; STOT SE 3: H335 - Warning	
CAS: 108-65-6 EO: 203-603-9 Zip CodeNo: 607-195-00-7 Registration number: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate²		5 - <10 %
	Regulation 1272/2008	Flam. Liq. 3: H226 - Attention	
CAS: 123-86-4 EO: 204-658-1 Index number: 607-025-00-1 Registration number: 01-2119485493-29-XXXX	Butyl acetate¹		5 - <10 %
	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	
CAS: 100-41-4 EC: 202-849-4 Index number: 601-023-00-4 Registration number: 01-2119489370-35-XXXX	Etilbenzen¹		5 - <10 %
	Regulation 1272/2008	Acute toxicity 4: H332; Aspiration toxicity 1: H304; Flammable liquid 2: H225; STOT RE 2: H373 - Danger	
CAS: 822-06-0 EO: 212-485-8 Postal code No: 615-011-00-1 Registration number: 01-2119457571-37-XXXX	Hexan-1,6-diyl diisocyanate¹		<1 %
	Regulation 1272/2008	Acute toxicity 3: H331; Eye irritation 2: H319; Respiratory sensitivity 1: H334; Skin irritation 2: H315; Skin sensitivity 1: H317; STOT SE 3: H335 - Danger	

⁽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, 16.

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

Other information*:

Identification	Specific limit of concentration
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

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

Airways:

Take the victim out of the exposure area, provide him with fresh air and rest. In severe cases, i.e. cardiac arrest and respiratory arrest, perform artificial respiration (mouth-to-mouth, cardiac massage, oxygen supply, etc.) and immediately call for medical help.

Skin:

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 clothes, as this may lead to 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.

Eyes:

Rinse your 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.

Digestive system:

Do not induce vomiting, but if vomiting occurs, keep the head tilted forward to prevent aspiration of gastric contents. Keep the victim calm. Rinse the mouth and throat, as they are likely to have been contaminated by ingestion.

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. Fire extinguishers

Suitable fire extinguishers: Foam fire extinguisher (AB), powder extinguisher (ABC), carbon dioxide fire extinguisher (BC)*

Unsuitable fire extinguishing equipment: Water jet.*

SAFETY DATA SHEET

EU format in accordance with Commission Regulation (EU) 2020/878

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ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1**5.2. Particular hazards arising from the substance or mixture**

Combustion or thermal decomposition produces by-products of the reaction, which 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 task. 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 air mixtures with vapors, both by ventilation and by using an inert agent. Eliminate all ignition sources. Eliminate static electricity by making sure that all conductive surfaces where 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 containment and cleaning ***Recommended:**

Do not allow the product to get into sewer systems, sewers or bodies of water. Absorb spills 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:

Minor spills:

Limit the spill with barriers or similar equipment. Use appropriate absorbents to collect and dispose of waste absorbents in accordance with applicable regulations.

Large spills:

If possible, limit spills into open water using barriers or similar equipment. If this is not possible, try to control the spread and assemble the product using 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 containers tightly closed. Control spills and waste by disposing of them safely (section 6). Prevent spontaneous leakage from containers. Maintain order and cleanliness when handling hazardous products.

B. Technical recommendations for fire and explosion prevention:

Transfer to well-ventilated areas using local aspiration whenever possible. Keep ignition sources (mobile phones, sparks) under full control and ventilate the premises during cleaning. Prevent hazardous atmospheres from forming in containers by using inert systems whenever possible. Transfer slowly to

SAFETY DATA SHEET

EU format in accordance with Commission Regulation (EU) 2020/878

Date of preparation: 4.05.2012

Date of revision: 8 09.2025

Version: 5

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

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 use.

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 equipped with pollution control sensors 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°C

Max. Temperature: 25 °C

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* must 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/m ³
	NDSCh	200 mg/m
2-methoxy-1-methylethyl acetate ¹ CAS: 108-65-6 EC: 203-603-9	NDS	260 mg/m ³
	NDSCh	520 mg/m
Butyl acetate CAS: 123-86-4 EC: 204-658-1	NDS	240 mg/m ³
	NDSCh	720 mg/m
Etilbenzen ¹ CAS: 100-41-4 EC: 202-849-4	NDS	200 mg/m ³
	NDSCh	400 mg/m
Hexane-1,6-diyl diisocyanate CAS:822-06-0 EC:212-485-8	NDS	0,04 mg/m
	NDSCh	0,08 mg/m

1) Skin*

DNEL (workers):*

Identification		Short-term exposure		Long-term exposure	
		Systematically	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/m	442 mg/m	221 mg/m	221 mg/m
Hexamethylene diisocyanate, oligomers 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/m ³	Not applicable	0,5 mg/m
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/m	275 mg/m ³	Not applicable
Butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Everyone	11 mg/kg	Not applicable	11 mg/kg	Not applicable
	Inhalation	600 mg/m ³	600 mg/m	300 mg/m	300 mg/m
Etilbenzen 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/m	77 mg/m ³	Not applicable
Hexane-1,6-diyl diisocyanate CAS:822-06-0 EC: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/m	Not applicable	0.035 mg/m ³

DNEL (population):

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

Identification		Short-term exposure		Long-term exposure	
		Systemic	Local	Systematically	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/m	260 mg/m	65,3 mg/m	65,3 mg/m
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/m
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/m	300 mg/m	35.7 mg/m³	35.7 mg/m³
Etilbenzen 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, oligomers CAS: 28182-81-2, EC: 931-274-8	Wastewater Treatment Plant	88 mg/L	Fresh water	0.127 mg/L
	Soil	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
Etilbenzen 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
Hexane-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 water	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 recommendations for the prevention of hazards when working with the product, as there is no information available about the protective equipment available to the company.

B. Airway protection:

Pictogram	Protective equipment	Labels	Стандарти CEN	Zablezhki
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SAFETY DATA SHEET

EU format in accordance with Commission Regulation (EU) 2020/878

Date of preparation: 4.05.2012

Date of revision: 8 09.2025

Version: 5

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

 Mandatory respiratory protection	Filtering mask, protecting against gases and vapors (Filter type: A)		EN 405:2002+A1:2010	If the smell or taste of the product penetrates the mask or clutch, the mask must be replaced. If the pollutant does not have obvious warning properties, the use of insulating equipment is recommended.
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C. Special hand protection:

Pictogram	Protective equipment	Labelling	Стандарти CEN	Zablezhki
 Mandatory hand protection	Reusable gloves Chemical Agent Protection Gloves (Material: Nitrile, Nitrile, Drilling Time) Drilling time: > 480 min, Material thickness: 0.4 mm)		EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	The breakthrough time specified by the manufacturer shall be longer than the use of the product. Do not use protective creams after the product has come into contact with the skin.

Since the product is composed of different materials, the strength of the glove cannot be pre-checked in a completely reliable way, so it must be checked before use.

D. Eye and Face Protection:

Pictogram	Protective equipment	Labelling	Стандарти CEN	Zablezhki
 Mandatory face protection	Panoramic glasses against splashes of liquids and/or vapors		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, antistatic and flame retardant		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 foot protection	Safety shoes that protect against chemical hazards, with antistatic properties and resistant to high temperatures		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
 Emergency shower cabin	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eye Wash Station	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

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 matter at 20 °C

Appearance

Colour

Smell

Odor threshold

Liquid

liquid

achromatic

Character

Not applicable*

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

Volatility:

Boiling point at atmospheric pressure	137
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:

Flash point	26 °C
Flammability of materials (solid, gaseous)	Not applicable
Self-ignition temperature	315 °C
Explosive Limits*	Bottom: Not Applicable, Upper: Not Applicable

Particle characteristics:

Average equivalent diameter	Not applicable
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9.2. Other information

Information in relation to physical hazard classes:

Explosive properties	Not applicable
Oxidizing properties	Not applicable
Substances that cause 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 20°C	Not applicable
Refractive index	Not applicable

Not applicable: there is no information about hazards caused by the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive under storage and handling conditions. Refer to 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.

Shocks and friction	Air contact	Heating	Sunlight	Humidity
Not applicable	Not applicable	Risk of inflammation	Avoid direct exposure	Not applicable

10.5. Incompatible materials

Acids	Water	Oxidants	Flammable materials	Other
Avoid severe heartburn	Not applicable	Avoid direct impact	Not applicable	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 decomposition conditions, complex mixtures of chemicals can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds. For more information, see Section 5.

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

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:

In the case of repeated, prolonged exposure or concentrations higher than the established occupational exposure limits, Health side effects may occur 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: On contact with the eyes, it 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. The product does not contain substances classified as hazardous. For more information, see Section 3.
- May impair fertility: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information, see Section 3.

E. Sensitizing effects:

- Respiratory system: 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. SRTO (specific organ toxicity) – single exposure:*

It causes irritation of the respiratory tract, which is usually reversible and limited to the upper respiratory tract.

G. SCO (specific organ toxicity) – 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 when inhaled	30 ml/L (4h)	Rat
Xylene CAS: 1330-20-7, EC: 215-535-7	LD50 orally	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 when inhaled	17 mg/L*	Rat
Hexamethylene diisocyanate, oligomers CAS: 28182-81-2, EC: 931-274-8	LD50 orally	5100 mg/kg	Rat
	LD50 dermal	> 2000 mg/kg	
	LC50 Inhaled	11 mg/L	
Etilbenzen CAS: 100-41-4 EC: 202-849-4	LD50 orally	3500 mg/kg	Rat
	LD50 dermal	15 354 mg/kg	Rabbit
	LC50 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	14112 mg/kg	Rabbit
	LC50 when inhaled	23.4 mg/L (4h)	Rat
Hexane-1,6-diyl diisocyanate CAS:822-06-0 EC:212-485-8	LD50 orally	> 2000 mg/kg	
	LD50 dermal	> 2000 mg/kg	
	LC50 Inhaled	3 mg/L*	

Expected acute toxicity (ATE mixture)*:

ATE blend		Ingredients of unknown toxicity
Oral	> 2000 mg/kg (Calculation method)	0

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

Dermal	2693,11 mg/kg* (Method of calculation)	0
LC50 for vapor inhalation*	16,27 mg/L (4h*) (Calculation method)	0

11.2. Information about other hazards

Endocrine-disrupting properties: It does not contain endocrine disruptors.

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, oligomers CAS: 28182-81-2, EC: 931-274-8	LC50	Not applicable		
	EC50	Not applicable		
	EC50	1000 mg/L (72h)	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 CAS: 100-41-4 EC: 202-849-4	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 CAS: 1330-20-7, EC: 215-535-7	NOEC	1.3 mg/L	Oncorhynchus mykiss	Fish
	NOEC	1.17 mg/L	Ceriodaphnia dubia	Crustacean
2-methoxy-1-methylethyl acetate CAS:108-65-6 EC:203-603-9	NOEC	47.5 mg/L	Oryzias latipes	Fish
	NOEC	100 mg/L	Daphnia magna	Crustacean
Butyl acetate CAS: 123-86-4 EC: 204-658-1	NOEC	Not applicable		
	NOEC	23.2 mg/L	Daphnia magna	Crustacean
Etilbenzen CAS: 100-41-4 EC: 202-849-4	NOEC	Not applicable		
	NOEC	0.96 mg/L	Ceriodaphnia dubia	Crustacean

12.2. Stability and degradability

Detailed information about the substance:

Identification	Gradiability		Biodegradability	
Xylene CAS: 1330-20-7, EC: 215-535-7	BOD5	Not applicable	Concentration	Not applicable
	COD	Not applicable	Period	28 days
	BPC5/CODE	Not applicable	5 Biodegradable	88
2-methoxy-1-methylethyl acetate CAS:108-65-6 EC:203-603-9	BOD5	Not applicable	Concentration	785 mg/L
	COD	Not applicable	Period	8 days
	BPC5/COD	Not applicable	5 Biodegradable	100
Butyl acetate CAS: 123-86-4 EC: 204-658-1	BOD5	Not applicable	Concentration	Not applicable
	COD	Not applicable	Period	5 days
	BPC5/CODE	Not applicable	5 Biodegradable	84
Etilbenzen CAS: 100-41-4 EC: 202-849-4	BOD5	Not applicable	Concentration	100 mg/L
	COD	Not applicable	Period	14 days
	BPC5/COD	Not applicable	5 Biodegradable	90
Hexamethylene diisocyanate, oligomers CAS: 28182-81-2, EC: 931-274-8	BOD5	Not applicable	Concentration	100 mg/L
	COD	Not applicable	Period	28 days
	BPC5/COD	Not applicable	5 Biodegradable	28

12.3. Bioaccumulative capacity Detailed information about the substance:

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

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

Butyl acetate CAS: 123-86-4 EC: 204-658-1	BCF	4
	Log POW	1,78
	Potential	Low
Etilbenzen CAS: 100-41-4 EC: 202-849-4	BCF	1
	Log POW	3,15
	Potential	Low

12.4. Soil Transferability

Identification	Absorption/desorption		Volatility	
Xylene CAS: 1330-20-7, EC: 215-535-7	Blanket	20	Henry's constant	524.86 Pa·m ³ /mol
	Conclusion	Medium	Dry soil	Yes
	Surface tension	Not applicable	Moist soil	Yes
Butyl acetate CAS: 123-86-4 EC: 204-658-1	Blanket	Not applicable	Henry's constant	Not applicable
	Conclusion	Not applicable	Dry soil	Not applicable
	Surface tension	2,478E-2 N/m (25 °C)	Moist soil	Not applicable
Etilbenzen CAS: 100-41-4 EC: 202-849-4	Blanket	520	Henry's constant	798.44 Pa·m ³ /mol
	Conclusion	Average	Dry soil	Yes
	Surface tension	2,859E-2 N/m (25 °C)	Moist soil	Yes

12.5. PBT and vPvB Assessment Results

The substances used do not meet the PBT/vPvB criteria.

12.6. Endocrine disrupting properties

It does not contain substances that disrupt the endocrine system.

12.7. Other adverse effects

Not specified.

SECTION 13: WASTE DISPOSAL

13.1. Waste treatment methods

Dispose of in accordance with applicable local and official waste regulations – see section 15.

Code	Description	Type of waste (Commission Regulation (EU) No 1357/2014)
08 01 11	Waste paints and varnishes containing organic solvents or other hazardous substances	Dangerous
15 01 10	Packaging containing residues of hazardous substances or contaminated with hazardous substances	

Type of waste (Commission Regulation (EU) No 1357/2014):
HP14 Ecotoxic, HP3 Flammable, HP5 Specific Organ Toxicity (STOT) or Inhalation Hazard, HP6 Acute Toxicity, HP13 Sensitizing, HP4 Irritant – irritate the skin and cause 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

ADR	IMDG	IATA
14.1. UN number or identification number		
UN1263	UN1263 *	UN1263
14.2. Exact name of the UN-listed consignment		
PAINT*	PAINT*	Paint
14.3. Transport hazard class(s)		
3	3	3

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Product hazardous to the environment: No	Product hazardous to the environment: No Marine pollutant: No	Environmentally hazardous product: No
No further information.		
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	Special provisions: 223, 955, 163,367 EmS codes: F-E, S-E Physical and chemical properties: see section 9 Limited quantity: 5 L Segregation group: No data available	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	Not applicable	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:

Section	Description	Requirements for high-risk enterprises	Requirements for high-risk enterprises
P5c	FLAMMABLE LIQUIDS	50	5000

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

- Cannot be used in:
 - decorative articles designed to create light or colour effects through 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, even 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 are trained in the safe use of diisocyanates before using those substances or mixtures.
- 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 recipient of the substances or mixtures receives information about the requirements referred to in point 1(b) and shall include the following statement on the packaging, clearly separated from the rest of the information on the label: 'From 24 August 2023, appropriate training prior to industrial or professional use shall be required.'
- 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 controls such activities.
- 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:

SAFETY DATA SHEET

EU format in accordance with Commission Regulation (EU) 2020/878

Date of preparation: 4.05.2012

Date of revision: 8 09.2025

Version: 5

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1

- 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,
 - 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 system.

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 provisions laid down by the Member State in which the industrial or professional users operate.

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:

SAFETY DATA SHEET**EU format in accordance with Commission Regulation (EU) 2020/878****Date of preparation: 4.05.2012****Date of revision: 8 09.2025****Version: 5****ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1**

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

Other provisions:

- 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 793/93 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 their mixtures (i.e. Official Gazette 2022, paragraph 1816). Communication from the Minister for Economic Affairs, 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 for safety and health at work (Official Gazette 2003 No 169, 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 pursuant to 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 limits 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 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 of 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.
- Ordinance 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 of 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 of 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 of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment (State Gazette 2018, issue 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 related to buildings and those structural elements, as well as in mixtures for the renovation of vehicles (State Gazette 2016, No. 0, item 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).

SAFETY DATA SHEET

EU format in accordance with Commission Regulation (EU) 2020/878

Date of preparation: 4.05.2012

Date of revision: 8 09.2025

Version: 5

ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1**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 by inhalation.

Acute Tox. 4: H312+H332Harmful in contact with skin or inhalation. Acute Tox.

4: H332Harmful by inhalation.

Aquatic Chronic 3: H412 Harmful to aquatic organisms, with a long-lasting effect.

Asp. Tox. 1: H304Can be lethal if ingested and entered the respiratory tract Roads. Eye Irrit. 2: H319Causes serious eye irritation.

Flam. Liq. 2: H225Highly flammable liquid and money. Flam.

Liq. 3: H226Flammable liquid and vapors.

Resp. Sens. 1: H334May cause allergic or asthmatic symptoms or breathing difficulties in inhalation. Skin Irrit. 2: H315Causes skin irritation.

Skin Sens. 1: H317 May cause an allergic skin reaction.

STOT RE 2: H373May cause organ damage if prolonged or repetitive exposition. STOT SE 3: H335May cause irritation of the respiratory tract.

PILLAR SE 3: H336 It can 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: Calculation method Acute

Tox. 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 receive basic training in occupational safety to facilitate the understanding and interpretation of the safety data sheet and product label.

Explanation of abbreviations and acronyms used in the safety data sheet:

Class.na dost. 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 (BOD) for 5 days

BCF: Bioconcentration factor

Log POW:logarithm of octanol/water partition coefficient NDS:

Maximum permissible 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: the ability of toxic substances to bioaccumulate vPvB: very high

potential for bioaccumulation of toxic substances IWO: personal protective

equipment

STP: wastewater treatment plants

Henry: solubility of a component in solution depending on the partial pressure of that component over the EC solution:

EINECS and ELINCS number (see also EINECS and ELINCS)

EINECS: European inventory of existing commercial chemicals

ELINCS: European List of Notified Chemicals CEN: European Committee for Standardisation STOT: Specific toxicity

to target organs

Kane: partition coefficient normalised to organic carbon content, which determines the degree of absorption of organic matter into the soil

SAFETY DATA SHEET**EU format in accordance with Commission Regulation (EU) 2020/878****Date of preparation: 4.05.2012****Date of revision: 8 09.2025****Version: 5****ACRYLIC PRIMER HARDENER ECO 5:1, S-2000 5:1, MAXI FILLER 5:1**

DNEL: derivative level without effect
PNEC: Suspected concentration with no effect on the environment
BDO: Waste database registration number
UFI: IARC unique identifier of the active substance:
International Agency for Research on Cancer

The classification has been made by means of a method of calculation in accordance with the classification rules contained in Regulation No 1272/2008/EC.

Other data sources:**ECHA** European Chemicals Agency**TOXNET** Toxicological Data Network

The information contained in this safety data sheet is based on sources and technical knowledge, as well as on current 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: Changes to the content of the sections are marked with an asterisk*: 1.2, 1.3, 1.4, 2.1, 2.2, 3.2, 5.1, 6.3, 8.1, 8.2, 9.1, 10.1, 10.2, 11.1, 15.1, 16.
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