

SECTION 1: Identification of the substance/mixture and of the company**1.1. Product identifier**

Trade name: ET9905 UHS HARDENER NORMAL

UFI: GT10-K0FM-P00A-Q0R1

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

Identified use: component for coated materials. Colourless coating for application by spray gun.

For professional use.

Use advised against: uses other than those listed above.

1.3. Details of the supplier of the safety data sheet

Supplier: ETALON is a brand of Alexport Company.
Industrial Area Sindos, P.C. 570 22, Thessaloniki, Greece
Tel: +30 2310 501814, info@alexport.gr
www.alexport.gr, www.etalon-refinish.com

1.4. Emergency telephone numbers

112 or call your local doctor/poison center

SECTION 2: Hazard identification**2.1. Classification of the substance or mixture**

Classification in accordance with Regulation (EC) No 1272/2008 [CLP], as amended

Flam. Liq. 3 (Flammable liquids, category 3)	H226
Skin Sens. 1 (Skin sensitisation, Category 1)	H317
Acute Tox. 4 (Acute toxicity, category 4)	H332
STOT SE 3 (Specific target organ toxicity – single exposure, category 3)	H335
STOT SE 3 (Specific target organ toxicity – single exposure, category 3)	H336
Repr. 2 (Reproductive toxicity, category 2)	H361d

The full text of H-statements and EUH phrases is provided in Section 16

Most important adverse effects related to physical properties

Flammable liquid and vapour.

Most important effects on human health

May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing harm to the unborn child.

Key environmental effects

The product is not classified as posing a risk to the aquatic environment.

2.2. Labelling elements

Labelling in accordance with Regulation (EC) No 1272/2008 [CLP]



Warning

Substance names to be listed in the product identifier:

hexamethylene diisocyanate, oligomers; n-butyl acetate; methyl isoamyl ketone; methyl n-amyl ketone; hexamethylene diisocyanate.

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Hazard statements:

H226: Flammable liquid and vapour.

H317: May cause an allergic skin reaction. H332:

Harmful if inhaled.

H335: May cause respiratory irritation. H336: May cause
drowsiness or dizziness.

H361d: Suspected of damaging the unborn child. Precautionary
statements:

P201: Read the special precautions before use.

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

P260: Do not breathe mist/vapours/spray.

P264: Wash hands, forearms and face thoroughly after use.

P280: Wear protective gloves, protective clothing, eye protection and face protection.

P308+P313: If exposed or in contact: Seek medical advice/attention.

P333+P313: If skin irritation or a rash occurs: Seek medical advice/attention. P403+P235: Store in a well-ventilated
place. Store in a cool place.

P501: Dispose of contents/container to a certified company for disposal in accordance with local/national/international regulations. Supplementary
information on the label:

EUH204: Contains isocyanates. May cause an allergic reaction.

Use of this product may cause allergic reactions in people sensitised to diisocyanates. People suffering from asthma, eczema or skin conditions should avoid
contact, including skin contact, with this product. This product should not be used in poorly ventilated areas unless a protective mask with a suitable gas filter
(e.g. type A1 in accordance with standard EN 14387) is worn.

From 24 August 2023, appropriate training is required prior to industrial or professional use.

2.3. Other hazards

Does not contain PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with Annex XIII of REACH

The mixture does not meet the PBT and vPvB criteria in accordance with Annex XIII of the REACH Regulation.

As of the date of this safety data sheet, the product does not contain any substances included on the Candidate List for inclusion in Annex XIV of REACH,
established in accordance with Article 59(1) of Regulation (EC) No 1907/2006, due to their endocrine-disrupting properties. No substance in the product is a
substance identified as having endocrine-disrupting properties in accordance with the criteria set out by the Commission – Delegated Regulation (EU) 2017/2100
or Commission Regulation (EU) 2018/605 (at a concentration equal to or greater than 0.1% by weight).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance name	Substance identifier	Classification in accordance with Regulation (EC) No. 1272/2008 [CLP]	Concentrat ion [% w/w]	Specific concentration limit [%]
hexamethylene diisocyanate, oligomers ¹	CAS: 28182-81-2 EC: 500-060-2 Index number: - REACH No.: -	Skin Sens. 1, H317 Acute Tox. 4, H332 STOT SE 3, H335	< 65	Not applicable.
n-butyl acetate ¹	CAS: 123-86-4 EC: 204-658-1 Index number: 607-025-00-1 REACH No: 01-2119485493-29-XXXX	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	< 25	Not applicable.
Methyl isoamyl ketone ¹	CAS: 110-12-3 EC: 203-737-8 Index number: 606-026-00-4 REACH No.: 01-2119472300-51-0000	Flamm. Liq. 3, H226 Acute Tox. 4, H332 Repro. 2, H361d	< 10	Not applicable.

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methyl-n-amyl ketone ¹	CAS: 110-43-0 EC: 203-767-1 Index number: 606-024-00-3 REACH No.: 01-2119902391-49-0000	Flamm. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 STOT SE 3, H336	< 10	ATE (oral) = 1600 mg/kg ATE (inhalation, vapours) = 16.7 mg/l
reaction mass of ethylbenzene and xylene ^{1,2}	CAS: - EC: 905-588-0 Index number: - REACH No.: 01-2119488216-32-XXXX	Flamm. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373	< 10	Not applicable.
hexamethylene diisocyanate ¹	CAS: 822-06-0 EC: 212-485-8 Index number: 615-011-00-1 REACH No.: -	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 3, H331 Resp. Sens. 1, H334 STOT SE 3, H335	< 0.2	Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %

1 – a substance with a maximum permissible concentration in the workplace set at national level.

2 – for this substance, concentrations of xylene (CAS 1330-20-7) and ethylbenzene (CAS 100-41-4) in the workplace must be monitored. The full text of the H-phrases and EUH phrases is provided in Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact: remove contaminated clothing. Rinse contaminated skin with plenty of water for at least 15 minutes. Contact a doctor if an allergic reaction or other worrying symptoms occur.

In case of contact with eyes: protect the unaffected eye; remove contact lenses. Rinse affected eyes thoroughly with water for 10–15 minutes. Avoid a strong water jet – risk of corneal damage. If any worrying symptoms occur, seek medical advice.

If swallowed: do not induce vomiting. If the person is conscious, rinse their mouth with water. Do not attempt to neutralise the substance. Never give anything by mouth to an unconscious person. Contact a doctor and show them the packaging or label.

If inhaled: remove the victim to fresh air, keep them warm and calm, and ensure they can breathe freely. If the victim has difficulty breathing, a suitably trained person should administer oxygen. If breathing difficulties occur, call a doctor.

4.2. Key acute and delayed symptoms and effects of exposure

In case of skin contact: redness, rash, itching. May cause an allergic reaction.

In case of contact with eyes: redness, burning, watering, blurred vision.

If swallowed: abdominal pain, vomiting, diarrhoea, irritation of the digestive system.

Following inhalation: drowsiness, dizziness, nausea, vomiting, respiratory tract irritation. The product is harmful if inhaled.

Other effects of exposure: suspected to be harmful to the unborn child.

4.3. Indications for any immediate medical attention and specific treatment of the affected person

Symptomatic treatment should be administered. The decision on the appropriate emergency procedure is made by a doctor or paramedic following a thorough assessment of the patient's condition.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: firefighting procedures should be adapted to the fire environment. Water spray, alcohol-resistant firefighting foam, carbon dioxide.

Unsuitable extinguishing media: avoid a strong water jet to prevent the fire from spreading.

5.2. Specific hazards associated with the substance or mixture

During combustion, hazardous and toxic gases such as carbon oxides, nitrogen oxides, hydrogen cyanide, isocyanates and other unidentified products of thermal decomposition and combustion may be produced. Substances released during a fire may pose a health hazard; therefore, avoid inhaling them. Flammable liquid and vapours. May form explosive mixtures with air. Vapours of the product are heavier than air and may accumulate in the lower parts of rooms and in depressions in the ground, posing a risk of ignition and explosion. During a fire, there is a significant increase in pressure within containers exposed to fire, which may lead to their rupture and the spread of fire.

5.3. Information for the fire service

Full protective equipment must be worn, including self-contained breathing apparatus with a face shield (EN 137), safety boots (EN 659), helmets (EN 443) and protective clothing (EN 469). Do not attempt any fire-fighting operations without proper preparation and training. Extinguish the fire from a safe distance. Cool containers exposed to fire with water. Avoid releasing used fire-fighting agents into the environment, drains and water bodies. Collect used fire-fighting agents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Appropriate personal protective equipment must be worn. Do not carry out clean-up operations without the appropriate protective equipment. Avoid contact with skin and eyes. Avoid inhaling mists and vapours from the product. Ensure adequate ventilation in the areas being cleaned. Emergency response operations should only be carried out by trained and appropriately equipped personnel. Unauthorised persons should have restricted access to the area where the product has been released during the clean-up operation. In the event of a major release, the area may be at risk of fire; in such situations, isolate the affected area and evacuate personnel not involved in the clean-up. Avoid open flames at all costs. Use non-sparking tools. Eliminate sources of ignition. Pregnant women should not be involved in clean-up operations relating to a release of this product.

6.2. Environmental precautions

Prevent the product from being released into the environment, soil, waste water, groundwater and surface water. In the event of a significant release into the environment, the relevant authorities must be notified immediately.

6.3. Methods and materials to prevent the spread of contamination and for decontamination

Collect spilled material using a non-flammable, liquid-absorbent material (e.g. sand, diatomaceous earth) and place it in labelled containers intended for waste disposal. Avoid generating vapours of the product during the clean-up operation. Clean and ventilate the contaminated area thoroughly. Use appropriate personal protective equipment during clean-up operations. Use non-sparking, explosion-proof tools and equipment for removing the spill. In the event of a major spill, contain the spill and pump it out. Treat the collected material as waste and transfer it to a suitable, separate waste container.

6.4. References to other sections

Product waste management – Section 13 of the safety data sheet.

Personal protective equipment – Section 8 of the safety data sheet.

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SECTION 7: Handling and storage of substances and mixtures

7.1. Precautions for safe handling

Before starting work with the product, please read the special precautions. Smoking and the use of e-cigarettes are prohibited. Do not eat or drink whilst working with the product. Observe health and safety regulations. Avoid inhaling vapours from the product. Avoid contact with eyes and skin. Always wash your hands thoroughly after each contact with the product, upon finishing work with the product, and before taking a break. Do not remove contaminated clothing from the workplace. Ensure adequate ventilation of workstations. Unused containers containing the product should be kept tightly closed. When working with the product, use non-sparking, explosion-proof equipment. People suffering from asthma, eczema or skin conditions should avoid contact, including skin contact, with this product. Minimise the duration and level of exposure to the product. Minimise the number of workers involved in processes involving this product. Pregnant women should not work with this product.

7.2. Conditions for safe storage, including information on any incompatibilities

Containers holding the product must be stored in an upright position to prevent leakage. Avoid contact with food and animal feed. Protect from sunlight, open flames and sources of heat. Do not store with incompatible materials. Packaging containing the mixture should be appropriately labelled. Use non-sparking tools and prevent the build-up of static electricity. Eliminate sources of ignition.

7.3. Specific end use(s)

Component for coated materials. Colourless coating for application by spray gun.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits and biological limit values\

n-butyl acetate (CAS 123-86-4)	
Poland - Maximum permissible concentration at the workplace	
Chemical name	n-Butyl acetate
TWA	240 mg/m ³
STEL	720 mg/m ³
Legal basis	Journal of Laws 2026, item 447, as amended

Methyl isoamyl ketone (CAS 110-12-3)	
Poland - Maximum permissible concentration at the workplace	
Chemical name	5-Methylhexan-2-one
TWA	95 mg/m ³
Legal basis	Journal of Laws 2026, item 447, as amended

methyl n-amyl ketone (CAS 110-43-0)	
Poland - Maximum permissible concentration at the workplace	
Chemical name	Heptan-2-one
TWA	238 mg/m ³
STEL	475 mg/m ³
Note	Skin
Legal basis	Journal of Laws 2026, item 447, as amended

xylene (CAS 1330-20-7)	
Poland - Maximum permissible concentration at the workplace	
Name of the chemical	Xylene – mixture of isomers (1,2-; 1,3-; 1,4-)
TWA	100 mg/m ³
STEL	200 mg/m ³
BEI	1.4 mg/dm ³ - calculated on the basis of an average urine density of 1.024 Analyte – methylhippuric acid Biological material – urine Notes: A single sample is taken at the end of the daily exposure period on any given day.

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Note	Skin
Legal basis	Journal of Laws 2026, item 447, as amended

Ethylbenzene (CAS 100-41-4)	
Poland - Maximum permissible concentration at the workplace	
Chemical name	Ethylbenzene
TWA	200 mg/m ³
STEL	400 mg/m ³
BEI	0.3 g/g creatinine Biological material – urine Notes: single sample collected at the end of daily exposure on any given day.
Note	Skin
Legal basis	Journal of Laws 2026, item 447, as amended

hexamethylene diisocyanate, oligomers (CAS 28182-81-2); hexamethylene diisocyanate (CAS 822-06-0)	
Poland - Maximum permissible concentration at the workplace	
Chemical name	Diisocyanates – calculated as NCO groups
TWA	0.006 mg/m ³
STEL	0.012 mg/m ³
Note	Skin
Legal basis	Journal of Laws 2026, item 447, as amended

Concentrations of hazardous substances in the air should be monitored and air quality in the workplace should be controlled, where possible and justified. The measurement procedures used should comply with the relevant national or European standards, taking into account the conditions at the workplace and the appropriate measurement methodology. The method, type and frequency of testing must meet the requirements set out in the relevant regulation of the Minister of Health.

DNEL – n-butyl acetate (CAS 123-86-4)			
User	Route of exposure	DNEL	Duration / Type of effect
Worker	Skin	11 mg/kg body weight/day	Long-term, systemic
Worker	Skin	11 mg/kg body weight/day	Short-term, systemic
Worker	Inhalation	600 mg/m ³	Short-term, systemic
Worker	Inhalation	600 mg/m ³	Short-term, local
Employee	Inhalation	300 mg/m ³	Long-term, systemic
Worker	Inhalation	300 mg/m ³	Long-term, local
General population	Oral	2 mg/kg body weight/day	Long-term, systemic
General population	Oral	2 mg/kg body weight/day	Short-term, systemic
Worker	Skin	6 mg/kg body weight/day	Long-term, systemic
Worker	Skin	6 mg/kg body weight/day	Short-term, systemic
Worker	Inhalation	300 mg/m ³	Short-term, systemic
Worker	Inhalation	300 mg/m ³	Short-term, local
Worker	Inhalation	35.7 mg/m ³	Long-term, systemic
Worker	Inhalation	35.7 mg/m ³	Long-term, local

DNEL – methyl isoamyl ketone (CAS 110-12-3)			
User	Route of exposure	DNEL	Duration / Type of effect
Employee	Inhalation	196 mg/m ³	Short-term, systemic
Worker	Skin	14.2 mg/kg body weight/day	Long-term, systemic
Worker	Inhalation	100.25 mg/m ³	Long-term, systemic
General population	Inhalation	146.5 mg/m ³	Short-term, systemic
General population	Skin	5.12 mg/kg body weight/day	Long-term, systemic
General population	Oral	5.12 mg/kg body weight/day	Long-term, systemic
General population	Inhalation	17.812 mg/m ³	Long-term, systemic

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DNEL – methyl-n-amyl ketone (CAS 110-43-0)			
User	Route of exposure	DNEL	Duration / Type of effect
Worker	Inhalation	1516 mg/m ³	Short-term, systemic
Worker	Skin	54.27 mg/kg body weight/day	Long-term, systemic
Employee	Inhalation	394.25 mg/m ³	Long-term, systemic
General population	Skin	23.32 mg/kg body weight/day	Long-term, systemic
General population	Oral	23.32 mg/kg body weight/day	Long-term, systemic
General population	Inhalation	84.31 mg/m ³	Long-term, systemic

DNEL – reaction mass of ethylbenzene and xylene (EC 905-588-0)			
User	Route of exposure	DNEL	Duration / Type of effect
Worker	Inhalation	442 mg/m ³	Short-term, systemic
Worker	Inhalation	442 mg/m ³	Short-term, local
Worker	Skin	212 mg/kg	Long-term, systemic
Worker	Inhalation	221 mg/m ³	Long-term, systemic
Worker	Inhalation	221 mg/m ³	Long-term, local
General population	Inhalation	260 mg/m ³	Short-term, systemic
General population	Inhalation	260 mg/m ³	Short-term, local
General population	Skin	125 mg/kg/day	Long-term, systemic
General population	Inhalation	65.3 mg/m ³	Long-term, systemic
General population	Oral	12.5 mg/kg/day	Long-term, systemic

PNEC – methyl isoamyl ketone (CAS 110-12-3)			
Environment	PNEC	Unit	
Freshwater	0.1	mg/l	
Seawater	0.01	mg/l	
Sewage treatment plant	100	mg/l	
Intermittent discharge	1	mg/l	
Sediment (freshwater)	1.12	mg/kg	
Sediment (seawater)	0.112	mg/kg	
Soil	0.166	mg/kg	

PNEC – methyl n-amyl ketone (CAS 110-43-0)			
Environment	PNEC	Unit	
Freshwater	0.0982	mg/l	
Seawater	0.00982	mg/l	
Sewage treatment plant	12.5	mg/l	
Periodic discharge	0.982	mg/l	
Sediment (freshwater)	1.89	mg/kg	
Sediment (seawater)	0.189	mg/kg	
Soil	0.321	mg/kg	

PNEC – n-butyl acetate (CAS 123-86-4)			
Environment	PNEC	Unit	
Freshwater	0.18	mg/l	
Seawater	0.018	mg/l	
Sewage treatment plant	35.6	mg/l	
Sludge (freshwater)	0.981	mg/kg	
Sediment (seawater)	0.0981	mg/kg	
Soil	0.09	mg/kg	

PNEC – reaction mass of ethylbenzene and xylene (EC 905-588-0)			
Environment	PNEC	Unit	
Freshwater	0.327	mg/l	
Seawater	0.327	mg/l	

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Periodic hydration	0.327	mg/l	1.0
Wastewater treatment plant	6.58	mg/l	
Sludge (freshwater)	12.46	mg/kg	
Sediment (seawater)	12.46	mg/kg	
Soil	2.31	mg/kg	

8.2. Exposure control

Appropriate technical measures to control exposure

Work in accordance with health and safety regulations. Do not eat, drink or smoke, or use e-cigarettes whilst working. Ensure adequate general ventilation in the areas where the product is being used. Ensure that exposure to the substance is kept below the maximum permissible concentrations in the workplace. Eye wash stations and safety showers should be located in the immediate vicinity of the area of potential exposure. Clothing contaminated with the product must be removed immediately. Minimise the duration and level of exposure to the product. Minimise the number of workers involved in processes involving this product. Pregnant women should not work with this product.

Personal protective equipment:

Use the recommended personal protective equipment. Personal protective equipment should be selected in accordance with CEN standards and in consultation with the supplier of protective equipment. When selecting personal protective equipment, take into account the nature of the task and the duration of exposure.

Eye protection:

Goggles for working with chemicals or safety glasses. ISO 16321-1

Skin and body protection:

Ensure skin protection appropriate to the conditions of use and exposure. Wear protective clothing. Hand protection:

Use protective gloves resistant to the product (in accordance with European standard ISO 374-1 or equivalent). Follow the manufacturer's instructions regarding permeation rates and breakthrough times. The type and thickness of the material should be selected for the specific workplace, as the choice of gloves may also depend on other substances and exposure factors present in the workplace.

For short-term contact, use protective gloves with a performance level of 2 or higher (breakthrough time > 30 min.). Recommended material: nitrile rubber, thickness: > 0.3 mm. Select the exact type and thickness of the material based on the data provided by the glove supplier.

For prolonged contact, use protective gloves with a performance level of 6 (breakthrough time > 480 min.). Recommended material: nitrile rubber, thickness: 0.4 mm. Select the exact type and thickness of the material based on data provided by the glove supplier.

When selecting specific gloves for a specific application and duration of use in the workplace, other workplace-related factors should also be taken into account, such as (but not limited to): other chemicals that may be used, physical requirements (protection against cuts/punctures, thermal protection) and the glove supplier's instructions/specifications.

Respiratory protection:

In the event of inadequate ventilation, or where a risk assessment indicates it is necessary, wear suitable respiratory protection. The choice of respirator should be based on the known or expected level of exposure, the hazards of the product and the safety limits of the selected respirator. A protective mask with a suitable gas filter (e.g. type A1 in accordance with EN 14387) is recommended.

Environmental exposure controls:

Avoid release into the environment. Prevent entry into drains, groundwater and surface water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Colourless
Odour	:	Characteristic
Odour threshold	:	Not specified
Melting point	:	Not determined
Freezing point	:	Not determined
Boiling point	:	140–200 °C
Flammability of materials	:	Not applicable
Lower explosion limit	:	Not determined
Upper explosive limit	:	Not determined
Flash point	:	24 °C
Auto-ignition temperature	:	approx. 400 °C
Decomposition temperature	:	Not determined

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pH	:	Not determined
Viscosity, kinematic	:	> 20.5 mm ² /s (40 °C)
Solubility	:	Slightly soluble
n-octanol/water partition coefficient (Log Kow)	:	Not determined
Vapour pressure	:	Not determined
Vapour pressure at 50 °C	:	Not determined
Density	:	approx. 1 kg/dm ³
Relative density	:	Not determined
Relative vapour density at 20°C	:	Not determined
Molecular characteristics	:	Not determined

9.2. Other information

No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Under normal conditions of storage and use, the product is not reactive.

10.2. Chemical stability

Under normal ambient conditions, the product is stable during storage and use.

10.3. Possibility of hazardous reactions

Under normal conditions of use, no hazardous reactions are expected. Vapours may form an explosive mixture with air.

10.4. Conditions to avoid

Keep away from sources of heat. Do not heat or expose to direct sunlight.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidisers. Water, amines, alcohols, copper alloys.

10.6. Hazardous decomposition products

Carbon oxides, nitrogen oxides, hydrogen cyanide, isocyanates.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance	Route of exposure	LD ₅₀ / LC ₅₀	Value
n-butyl acetate (CAS 123-86-4)	Oral	LD ₅₀	10,760 mg/kg (rat)
	Skin	LD ₅₀	14,000 mg/kg (rabbit)
	Inhalation, vapours	LC ₅₀	> 21.1 mg/l (rat, OECD 403)
methyl isoamyl ketone (CAS 110-12-3)	Oral	LD ₅₀	5657 mg/kg (rat)
methyl-n-amyl ketone (CAS 110-43-0)	Oral	LD ₅₀	1600 mg/kg (rat)
	Skin	LD ₅₀	> 2001 mg/kg (rabbit)
	Inhalation, vapours	LC ₅₀	> 16.7 mg/l/4h (rat)

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Acute toxicity	Mixture toxicity: ATEmix (skin): > 2000 mg/kg ATEmix (oral): > 2000 mg/kg ATEmix (inhalation, vapours): ≥ 10 - < 20 mg/l Harmful if inhaled.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on the available data, the classification criteria are not met.
Reproductive toxicity	Suspected of causing harm to the unborn child.
Target organ toxicity – single exposure	May cause drowsiness or dizziness. May cause respiratory tract irritation.
Specific target organ toxicity – repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Information on likely routes of exposure	In case of skin contact: redness, rash, itching. May cause an allergic reaction. In case of contact with eyes: redness, burning, watering, blurred vision. If swallowed: abdominal pain, vomiting, diarrhoea, irritation of the digestive system. Following inhalation: drowsiness, dizziness, nausea, vomiting, respiratory tract irritation. The product is harmful if inhaled. Other effects of exposure: suspected of causing harm to the unborn child.
Symptoms related to physical, chemical and toxicological properties	No test data available for the mixture. No additional information has been gathered based on actual exposure to the product.

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Delayed, immediate and chronic effects
of short- and
long-term exposure

No test data is available for the mixture. No further information has been gathered based on actual exposure to the product.

11.2. Information on other hazards

Endocrine-disrupting properties

As of the date of this safety data sheet, the product does not contain any substances included on the Candidate List for inclusion in Annex XIV of REACH, established in accordance with Article 59(1) of Regulation (EC) No 1907/2006, due to their endocrine-disrupting properties. No substance in the product is identified as having endocrine-disrupting properties in accordance with the criteria set out by the Commission – Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 (at a concentration equal to or greater than 0.1 % by weight).

Other information

No further information available.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Organism	Effect	Value / Method
n-butyl acetate (CAS 123-86-4)	<i>Pimephales promelas</i>	LC ₅₀	18 mg/l/96h
	<i>Daphnia magna</i>	LC ₅₀	44 mg/l/48h
	<i>Scenedesmus subspicatus</i>	IC ₅₀	675 mg/l/72h
methyl isoamyl ketone (CAS 110-12-3)	<i>Fish</i>	LC ₅₀	159 mg/l/96h
	<i>Chlorella pyrenoidosa</i>	EC ₅₀	> 100 mg/l/72h
methyl-n-amyl ketone (CAS 110-43-0)	<i>Pimephales promelas</i>	LC ₅₀	131 mg/l/96h
	<i>Selenastrum capricornutum</i>	EC ₅₀	98.2 mg/l/72h

Mixture toxicity

The product is not classified as posing a risk to the aquatic environment.

12.2. Persistence and degradability

No additional data available for the mixture.

Substance	Biodegradation
n-butyl acetate (CAS 123-86-4)	80%, OECD 301D
methyl isoamyl ketone (CAS 110-12-3)	67%, 28 days Chemical oxygen demand: 2.1 g/g
methyl-n-amyl ketone (CAS 110-43-0)	69%, 28 days Chemical oxygen demand: 2.42 g/g Biochemical oxygen demand (5 days): 1.77 g/g
hexamethylene diisocyanate, oligomers (CAS 28182-81-2)	1%, 28 days

12.3. Bioaccumulative potential

No additional data available for the mixture.

Substance	Value	Result
Methyl isoamyl ketone (CAS 110-12-3)	Log Pow	1.79
methyl-n-amyl ketone (CAS 110-43-0)	Log Pow	1.98

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12.4. Mobility in soil

No additional data available for the mixture.

Substance	Value	Result
Methyl isoamyl ketone (CAS 110-12-3)	Log Koc	2.16

12.5. Results of the PBT and vPvB assessment

Does not contain PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with Annex XIII of REACH

The mixture does not meet the PBT and vPvB criteria in accordance with Annex XIII of the REACH Regulation.

12.6. Endocrine-disrupting properties

As of the date of this safety data sheet, the product does not contain any substances included on the Candidate List for inclusion in Annex XIV of REACH, established in accordance with Article 59(1) of Regulation (EC) No 1907/2006, due to their endocrine-disrupting properties. No substance in the product is identified as having endocrine-disrupting properties in accordance with the criteria set out by the Commission – Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 (at a concentration of 0.1% by weight or more).

12.7. Other adverse effects

No further information available.

SECTION 13: Waste treatment

13.1. Waste disposal methods

Disposal instructions

Disposal must be carried out using the appropriate EWC code, in accordance with applicable regulations. The waste code should be assigned at the point of generation based on the application in which the mixture is used. Do not discharge into drains. Transfer product waste to a suitable, separate container.

Recommendations for the disposal of packaging

Recovery and recycling of packaging waste must be carried out safely in accordance with local/national regulations. Only completely empty packaging may be sent for recycling.

Information on environmental waste Avoid

release into the environment.

National legislation: The Act of 14 December 2012 on waste (Journal of Laws 2013, item 21, as amended) and the Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws 2013, item 888, as amended)

EU regulations: Directive 2008/98/EC as amended, Directive 94/62/EC as amended

SECTION 14: Transport information

Based on the provisions of ADR / IMDG / RID

14.1. UN number or identification number

ADR	IMDG	RID
UN 1263	UN 1263	UN 1263

14.2. UN proper shipping name

ADR	IMDG	RID
PAINT-RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT-RELATED MATERIAL
Description in the transport document		
UN 1263 PAINT RELATED MATERIAL, 3, III, (D/E)	UN 1263 PAINT RELATED MATERIAL, 3, III	UN 1263 PAINT, 3, III

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14.3. Transport hazard class(es)

3	3	3
		

14.4. Packing group

III	III	III
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14.5. Environmental hazards

Environmentally hazardous product: No	Product hazardous to the environment: No Marine pollutant: No EmS No. (Fire): F-E EmS No. (Spill): S-E	Environmentally hazardous product: No
No further information		

14.6. Special precautions for users

Road transport	
Classification code	F1
Special provisions	163, 367, 650
Limited quantities	5L
Exempt quantities	E1

Sea transport	
Special provisions	163, 223, 367, 955
Limited quantities	5L
Exempt quantities	E1
Packaging instructions	P001, LP01

Rail transport	
Classification code	F1
Special provisions	163, 367, 650
Limited quantities	5L
Exempt quantities	E1

Use personal protective equipment. Eliminate sources of ignition and open flames. If the product is released, contain the spill using non-sparking tools.

14.7. Transport by sea in bulk in accordance with IMO

instruments Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific to the substance or mixture

European Union regulations

Annex XVII to the REACH Regulation

Due to the presence of hexamethylene diisocyanate, oligomers (CAS 28182-81-2) and hexamethylene diisocyanate (CAS 822-06-0) in the product, the restrictions set out in entries 56 and 74 of Annex XVII to the REACH Regulation apply.

Annex XIV of REACH

The product does not contain any substances listed in Annex XIV to the REACH Regulation.

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REACH Candidate List (SVHC)

The product does not contain any substances listed on the REACH Candidate List in concentrations of $\geq 0.1\%$ or SCL.

PIC Regulation (EU 649/2012, Prior Informed Consent)

The product does not contain any substances listed on the PIC list (Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals)

POP Regulation (EU 2019/1021, Persistent Organic Pollutants)

The product does not contain any substances listed in the POP list (Regulation (EU) 2019/1021 on persistent organic pollutants)

National regulations

Poland

The Act of 25 February 2011 on chemical substances and mixtures thereof (Journal of Laws 2011, No. 63, item 322, as amended)

The Act of 14 December 2012 on waste (Journal of Laws 2013, item 21, as amended)

Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws 2013, item 888, as amended) Regulation of the Minister for Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10)

Act of 19 August 2011 on the transport of dangerous goods (Journal of Laws 2011 No. 227, item 1367, as amended)

Regulation of the Minister of Family, Labour and Social Policy of 26 June 2026 amending the Regulation on the maximum permissible concentrations and intensities of factors harmful to health in the workplace (Journal of Laws 2026, item 447, as amended)

Regulation of the Minister of Health of 30 December 2004 on occupational health and safety in relation to the presence of chemical agents in the workplace (Journal of Laws 2005 No. 11, item 86, as amended)

Regulation of the Minister of Health of 2 February 2011 on testing and measuring factors harmful to health in the workplace (Journal of Laws 2011 No. 33, item 166, as amended)

Regulation of the Minister for the Environment of 9 December 2003 on substances posing a particular risk to the environment (Journal of Laws 2003, No. 217, item 2141)

ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International

Transport of Dangerous Goods by Road (ADR), drawn up in Geneva on 30 September 1957 (Journal of Laws 2023, item 891)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

SECTION 16: Other information

Full text of H and EUH statements:

Acute Tox. 4 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Asp. Tox. 1 Aspiration hazard, category 1

Eye Irrit. 2 Serious eye damage/eye irritation, category 2

Flammable liquids, category 3 Flammable liquids, category 3

Skin Irrit. 2 Skin corrosion/irritation, category 2

Skin Sens. 1 Skin sensitiser, Category 1

Resp. Sens. 1 Respiratory sensitisation, Category 1

STOT RE 2 Specific target organ toxicity – repeated exposure, category 2

STOT SE 3 Specific target organ toxicity – single exposure, category 3, respiratory tract irritation

Repr. 2 Reproductive toxicity, category 2

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 Ingestion and inhalation may be fatal.

H312 Harmful in contact with the skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause the skin to become dry or cracked.

List of abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Estimated acute toxicity
CLP	Regulation on classification, labelling and packaging; Regulation (EC) No 1272/2008
DNEL	Derived no-effect level
EC number	European Community number
EC50	Effective concentration
ED	Endocrine disruptor
EN	European standard
EWC	European Waste Catalogue
IMDG	International Maritime Dangerous Goods
LC50	Concentration of a substance causing the death of 50% of the test organism population
LD50	The dose that kills 50% of the test organisms
Log Kow	n-octanol/water partition coefficient (Log Kow)
Log Pow	n-octanol/water partition coefficient (Log Pow)
NOEC	No Observed Adverse Effect Concentration
N.O.S.	Not otherwise specified
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic substance
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very persistent and very bioaccumulative
UFI	Unique Form Identifier

Classification and procedures used to determine the classification of mixtures in accordance with Regulation (EC) No 1272/2008 [CLP]:

Flamm. Liq. 3	H226	Based on the flash point and boiling point data of the flammable component.
Skin Sens. 1	H317	Calculation method
Acute Tox. 4	H332	Calculation method
STOT SE 3	H335	Calculation method
STOT SE 3	H336	Calculation method
Repr. 2	H361d	Calculation method

Sources of data used to compile the safety data sheet:

ECHA (European Chemicals Agency) databases. Publicly available toxicological databases. Product supplier's safety data sheet.

Regulation (EC) No 1272/2008, as amended.

Training:

It is recommended that users undergo appropriate on-the-job training, as well as health and safety training, before starting to work with the product.

Persons involved in the transport of dangerous goods should also be trained in this area.

The data contained in the safety data sheet is based on current information from publicly available sources. The content of the safety data sheet is intended solely for purposes related to the protection of health and life, and ensuring the safety of people and the environment. The safety data sheet does not constitute a guarantee of the product's properties. The safety data sheet does not relieve the user of the obligation to handle the product correctly and safely in accordance with the manufacturer's instructions.