

SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT

NAME OF THE PRODUCT Hardener UHS Medium (VOC) 2,5l
REFERENCE 010050

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Regulation (EC) No 1272/2008

Classification of this product has been carried out in accordance with CLP Regulation (EC) No1272/2008.

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332.
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412.
Eye Irrit. 2: Eye irritation, Category 2, H319.
Flam. Liq. 3: Flammable liquids, Category 3, H226
Skin Irrit. 2: Skin irritation, Category 2, H315.
Skin Sens. 1: Sensitisation, skin, Category 1, H317.
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 (Oral), H373.
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335.

2.2. Label elements

CLP Regulation (EC) No 1272/2008

Warning



Hazard statements

Acute Tox. 4: H332 - Harmful if inhaled.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).
STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.
 P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment.

Supplementary information

EUH204: Contains isocyanates. May produce an allergic reaction.

Substances that contribute to the classification

Hexamethylene diisocyanate, oligomers (<0.1% O=C=N-R-N=C=O); Xylene.

2.3. Other hazards

Product fails to meet PBT/vPvB criteria.

Endocrine-disrupting properties: The product fails to meet the criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance


Non-applicable.

3.2. Mixture

Chemical description: Mixture composed of additives and resins in solvents.

Components: In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 28182-81-2 EC: 931-274-8 Index: Non-applicable REACH: 01-2119485796-17-XXXX	Hexamethylene diisocyanate, oligomers (<0.1% O=C=N-R-N=C=O)¹ Self-classified Regulation 1272/2008 Acute Tox. 4: H332 Skin Sens. 1: H317 STOT SE 3: H335 - Warning	25 - <50%
CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX	Xylene¹ Self-classified Regulation 1272/2008 Acute Tox. 4: H312+H332 Aquatic Chronic 3: H412 Asp. Tox. 1: H304 Eye Irrit. 2: H319 Flam. Liq. 3: H226 Skin Irrit. 2: H315 STOT RE 2: H373 STOT SE 3: H335 - Danger	25 - <50%
CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX	N-butyl acetate² ATP CLP00 Regulation 1272/2008 Flam. Liq. 3: H226 STOT SE 3: H336 EUH066 - Warning	10 - <25%
CAS: 108-65-6 EC: 203-603-9 Index: 607-195-00-7 REACH: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate² ATP ATP01 Regulation 1272/2008 Flam. Liq. 3: H226 - Warning	2,5 - <5%

CAS: 64742-95-6 EC: 265-199-0 Index: 649-356-00-4 REACH: 01-2119486773-24-XXXX	Solvent naphtha (petroleum), light arom., <0.1% EC 200-753-7¹ ATP ATP01 Regulation 1272/2008 Aquatic Chronic 2: H411 Asp. Tox. 1: H304 Flam. Liq. 3: H226 Skin Irrit. 2: H315 STOT SE 3: H336 EUH066 - Danger	 2,5 - < 5%
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¹Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No.2020/878.

²Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No.2020/878.

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2. Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2. Special hazards arising from the substance or mixture

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3. Advice for firefighters

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit...) in accordance with Directive 89/654/EC.

Additional provisions

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2. Environmental precautions

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3. Methods and material for containment and cleaning up

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4. Reference to other sections

See sections 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for storage

Minimum Temp.:	5°C
Maximum Temp.:	30°C
Maximum time:	12 months

General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.

7.3. Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	IOELV (8h) IOELV (STEL)	50 ppm 150 ppm	241 mg/m ³ 723 mg/m ³
Xylene CAS: 1330-20-7 EC: 215-535-7	IOELV (8h) IOELV (STEL)	50 ppm 100 ppm	221 mg/m ³ 442 mg/m ³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	IOELV (8h) IOELV (STEL)	50 ppm 100 ppm	275 mg/m ³ 550 mg/m ³

DNEL (Workers)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Hexamethylene diisocyanate, oligomers (<0.1% O=C=N-R-N=C=O) CAS: 28182-81-2 EC: 931-274-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	1 mg/m ³	Non-applicable	0,5 mg/m ³
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
	Inhalation	442 mg/m ³	442 mg/m ³	221 mg/m ³	221 mg/m ³
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable
	Inhalation	600 mg/m ³	600 mg/m ³	300 mg/m ³	300 mg/m ³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	796 mg/kg	Non-applicable
	Inhalation	Non-applicable	550 mg/m ³	275 mg/m ³	Non-applicable
Solvent naphtha (petroleum), light arom., <0.1% EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	1286,4 mg/m ³	1066,67 mg/m	Non-applicable	837,5 mg/m ³

DNEL (General population)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
	Inhalation	260 mg/m ³	260 mg/m ³	65,3 mg/m ³	65,3 mg/m ³
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
	Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
	Inhalation	300 mg/m ³	300 mg/m ³	35,7 mg/m ³	35,7 mg/m ³

2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Non-applicable	Non-applicable	36 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	320 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	33 mg/m ³	33 mg/m ³
Solvent naphtha (petroleum), light arom., <0.1% EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	1152 mg/m ³	640 mg/m ³	Non-applicable	178,57 mg/m ³


PNEC







Identification				
Hexamethylene diisocyanate, oligomers (<0.1% O=C=N-R-N=C=O) CAS: 28182-81-2 EC: 931-274-8	STP	88 mg/L	Fresh water	0,127 mg/L
	Soil	53183 mg/kg	Marine water	0,013 mg/L
	Intermittent	1,27 mg/L	Sediment (Fresh water)	266701 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	26670 mg/kg
Xylene CAS: 1330-20-7 EC: 215-535-7	STP	6,58 mg/L	Fresh water	0,327 mg/L
	Soil	2,31 mg/kg	Marine water	0,327 mg/L
	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	STP	35,6 mg/L	Fresh water	0,18 mg/L
	Soil	0,09 mg/kg	Marine water	0,018 mg/L
	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,098 mg/kg
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	STP	100 mg/L	Fresh water	0,635 mg/L
	Soil	0,29 mg/kg	Marine water	0,064 mg/L
	Intermittent	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,329 mg/kg

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

	<p>Respiratory protection Mandatory respiratory tract protection. Filter mask for gases, vapours and particles. Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected. EN 149:2001+A1:2009 EN 405:2001+A1:2010 EN ISO 136:1998</p> <p>CE CAT III</p>
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	<p>Specific protection for the hands Mandatory hand protection. Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm). Replace the gloves at any sign of deterioration. EN ISO 21420:2020</p> <p>CE CAT III</p> <p>As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.</p>
	<p>Eye and face protection Mandatory face protection. Panoramic glasses against splash/projections. Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. EN 166:2002 EN ISO 4007:2018</p> <p>CE CAT II</p>
	<p>Body protection Mandatory complete body protection. Antistatic and fireproof protective clothing. Limited protection against flames. EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018</p> <p>CE CAT III</p>
	<p>Body protection Mandatory foot protection. Safety footwear with antistatic and heat resistant properties. Replace boots at any sign of deterioration. EN 13287:2020 EN ISO 20345:2011</p> <p>CE CAT III</p>
	<p>Additional emergency measures Emergency shower. ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011</p>
	<p>Additional emergency measures Eyewash stations. DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011</p>

Environmental exposure controls

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D.

Volatile organic compounds

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	50,45% weight
V.O.C. density at 20 °C:	504,51 kg/m ³ (504,51 g/L)
Average carbon number:	7,35
Average molecular weight:	112,05 g/mol

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance	
Physical state at 20°C	Liquid
Appearance	Fluid
Colour	Colourless
Odour	Solvent
Odour threshold	Non-applicable*
Volatility	
Boiling point at atmospheric pressure	136°C
Vapour pressure at 20°C	812 Pa
Vapour pressure at 50°C	4329,74 Pa (4,33 kPa)
Evaporation rate at 20°C	Non-applicable*
Product description	
Density at 20°C	990 - 1010 kg/m ³
Relative density at 20°C	0,99 - 1,01
Dynamic viscosity at 20°C	39 - 19 cP
Kinematic viscosity at 20°C	29 mm ² /s
Kinematic viscosity at 40°C	Non-applicable*
Concentration	Non-applicable*
pH	Non-applicable*
Vapour density at 20°C	Non-applicable*
Partition coefficient n-octanol/water 20°C	Non-applicable*
Solubility in water at 20°C	Non-applicable*
Solubility properties	Immiscible
Decomposition temperature	Non-applicable*
Melting point/freezing point	Non-applicable*
Flammability	
Flash Point	27°C
Flammability (solid, gas)	Non-applicable*
Autoignition temperature	315°C
Lower flammability limit	Not available
Upper flammability limit	Not available
Particle characteristics	
Median equivalent diameter	Non-applicable

*Not relevant due to the nature of the product, not providing information property of its hazards.

9.2. Other information

Information with regard to physical hazard classes	
Explosive properties	Non-applicable*
Oxidising properties	Non-applicable*
Corrosive to metals	Non-applicable*
Heat of combustion	Non-applicable*
Aerosols-total percentage (by mass) of flammable components	Non-applicable*
Other safety characteristics	
Surface tension at 20°C	Non-applicable*
Refraction index	Non-applicable*

*Not relevant due to the nature of the product, not providing information property of its hazards.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2. Chemical stability

Chemically stable under the indicated conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Non-applicable	Non-applicable	Risk of combustion	Avoid direct impact	Non-applicable

10.5. Incompatible materials

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6. Hazardous decomposition products

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No1272/2008

The experimental information related to the toxicological properties of the product itself is not available.

Dangerous health implications

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

Ingestion (acute effect)

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

Inhalation (acute effect)

- Acute toxicity: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

Contact with the skin and the eyes (acute effect)

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Solvent naphtha (petroleum), light arom., <0.1% EC 200-753-7 (3); Xylene (3).

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Sensitizing effects

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

Specific target organ toxicity (STOT) - single exposure

- Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

Specific target organ toxicity (STOT)-repeated exposure

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

Aspiration hazard

- Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information

Non-applicable.

Specific toxicology information on the substances

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	LD50 oral	12789 mg/kg	Rat
	LD50 dermal	14112 mg/kg	Rabbit
	LC50 inhalation	23,4 mg/L (4h)	Rat
Hexamethylene diisocyanate, oligomers (<0.1% O=C=N-R-N=C=O) CAS: 28182-81-2 EC: 931-274-8	LD50 oral	2660 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	11 mg/L (ATEi)	
Solvent naphtha (petroleum), light arom., <0.1% EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	2000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (ATEi)	
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LD50 oral	8532 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rat
	LC50 inhalation	30 mg/L (4 h)	Rat

Acute Toxicity Estimate (ATE mix)

	ATE mix	Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	3490,68 mg/kg (Calculation method)	0%
Inhalation	13,84 mg/L (4h) (Calculation method)	0%

11.2 Information on other hazards

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable.

12. ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1. Toxicity

Acute toxicity

Identification	Concentration		Species	Genus
	LC50	Non-applicable		
Hexamethylene diisocyanate, oligomers (<0.1% O=C=N-R-N=C=O) CAS: 28182-81-2 EC: 931-274-8	LC50	Non-applicable		
	EC50	Non-applicable		
	EC50	1000 mg/L (72h)	Scenedesmus subspicatus	Algae
Xylene CAS: 1330-20-7 EC: 215-535-7	LC50	>10-100 (96h)		Fish
	EC50	>10-100 (48h)		Crustacean
	EC50	>10-100 (72h)		Algae

N-butyl acetate CAS: 123-86-4 EC: 204-658-1	LC50	Non-applicable		
	EC50	Non-applicable		
	EC50	675 mg/L (72h)	Scenedesmus subspicatus	Algae
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LC50	161 mg/L (96h)	Pimephales promelas	Fish
	EC50	481 mg/L (48h)	Daphnia sp.	Crustacean
	EC50	Non-applicable		
Solvent naphtha (petroleum), light arom., <0.1% EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	LC50	>1-10 (96h)		Fish
	EC50	>1-10 (48h)		Crustacean
	EC50	>1-10 (72h)		Algae

Chronic toxicity

Identification	Concentration		Species	Genus
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
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	NOEC	Non-applicable		
	NOEC	23,2 mg/L	Daphnia magna	Crustacean
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	NOEC	47,5 mg/L	Pimephales promelas	Fish
	NOEC	100 mg/L	Daphnia magna	Crustacean

12.2. Persistence and degradability

Substance-specific information

Identification	Degradability		Biodegradability	
Xylene CAS: 1330-20-7 EC: 215-535-7	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	88%
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	5 days
	BOD5/COD	Non-applicable	% Biodegradable	84%
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BOD5	Non-applicable	Concentration	785 mg/L
	COD	Non-applicable	Period	8 days
	BOD5/COD	Non-applicable	% Biodegradable	100%
Solvent naphtha (petroleum), light arom., <0.1% EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	BOD5	0,19g O2/g	Concentration	Non-applicable
	COD	0,44g O2/g	Period	Non-applicable
	BOD5/COD	0,43	% Biodegradable	Non-applicable

12.3. Bioaccumulative potential

Substance-specific information

Identification	Bioaccumulation potential	
Xylene CAS: 1330-20-7 EC: 215-535-7	BCF	9
	POW Log	2.77
	Potential	Low

N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BCF	4
	POW Log	1.78
	Potential	Low
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BCF	1
	POW Log	0.43
	Potential	Low
Solvent naphtha (petroleum), light arom., <0.1% EC 200-753-7 CAS: 64742-95-6 EC: 265-199-0	BCF	
	POW Log	4
	Potential	

12.4. Mobility in soil

Identification	Absorption/ desorption		Volatility	
	Xylene CAS: 1330-20-7 EC: 215-535-7	Koc	202	Henry
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Conclusion	Moderate	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
	Koc	Non-applicable	Henry	Non-applicable
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,478E-2 N/m(25°C)	Moist soil	Non-applicable

12.5. Results of PBT and vPvB assessment

Product fails to meet PBT/vPvB criteria.

12.6. Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

12.7 Other adverse effects

Not described.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Code	Description	Waste class (Regulation (EU) No1357/2014)
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014)

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage.

Waste management (disposal and evaluation)

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management


In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated.

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No1357/2014.

14. TRANSPORT INFORMATION


Transport of dangerous goods by land

With regard to ADR 2021 and RID 2021:

	14.1. UN number or ID number	UN1263
	14.2. UN proper shipping name	PAINT RELATED MATERIAL
	14.3. Transport hazard class(es)	3
	Labels	3
	14.4. Packing group	III
	14.5. Environmental hazards	No
	14.6. Special precautions for user	
	Special regulations	163, 367, 650
	Tunnel restriction code	D/E
	Physico-Chemical properties	See section 9
	Limited quantities	5L
	14.7. Maritime transport in bulk according to IMO instruments	Non-applicable


Transport of dangerous goods by sea

With regard to IMDG 40-20:

	14.1. UN number or ID number	UN1263
	14.2. UN proper shipping name	PAINT RELATED MATERIAL
	14.3. Transport hazard class(es)	3
	Labels	3
	14.4. Packing group	III
	14.5. Marine pollutant	No
	14.6. Special precautions for user	
	Special regulations	163, 223, 955, 367
	EmS Codes	F-E, S-E
	Physico-Chemical properties	See section 9
	Limited quantities	5L
	Segregation group	Non-applicable
	14.7. Maritime transport in bulk according to IMO instruments	Non-applicable

Transport of dangerous goods by air

With regard to IATA/ICAO 2022:

	14.1. UN number or ID number	UN1263
	14.2. UN proper shipping name	PAINT RELATED MATERIAL
	14.3. Transport hazard class(es)	3
	Labels	3
	14.4. Packing group	III
	14.5. Environmental hazards	No
	14.6. Special precautions for user	
	Physico-Chemical properties	See section 9
14.7. Maritime transport in bulk according to IMO instruments	Non-applicable	

15. REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No1907/2006 (REACH): Non-applicable.

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable.

Regulation (EC) No1005/2009, about substances that deplete the ozone layer: Non-applicable.

Article 95, REGULATION (EU) No528/2012: Non-applicable.

REGULATION (EU) No649/2012, in relation to the import and export of hazardous chemical products: Non-applicable.

Seveso III

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc...)

Shall not be used in:

-Ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays.

-Tricks and jokes.

-Games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation.

15.2. Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

16. OTHER INFORMATION

Legislation related to safety data sheets

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks

COMMISSION REGULATION (EU) 2020/878.

Texts of the legislative phrases mentioned in section 2

H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H315: Causes skin irritation.
H412: Harmful to aquatic life with long lasting effects.
H373: May cause damage to organs through prolonged or repeated exposure (Oral).
H332: Harmful if inhaled.
H226: Flammable liquid and vapour.
H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

CLP Regulation (EC) No 1272/2008

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.
Acute Tox. 4: H332 - Harmful if inhaled.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).
STOT SE 3: H335 - May cause respiratory irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure

Skin Sens. 1: Calculation method.
STOT SE 3: Calculation method.
Skin Irrit. 2: Calculation method.
Aquatic Chronic 3: Calculation method.
STOT RE 2: Calculation method.
Acute Tox. 4: Calculation method.
Flam. Liq. 3: Calculation method (2.6.4.3).
Eye Irrit. 2: Calculation method.

Advice related to training

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources

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

Abbreviations and acronyms

ADR: European agreement concerning the international carriage of dangerous goods by road.
IMDG: International maritime dangerous goods code.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organisation.
COD: Chemical Oxygen Demand.

BOD5: 5day biochemical oxygen demand.
BCF: Bioconcentration factor.
LD50: Lethal Dose 50.
LC50: Lethal Concentration 50.
EC50: Effective concentration 50.
LogPOW: Octanolwater partition coefficient.
Koc: Partition coefficient of organic carbon.
UFI: unique formula identifier.
IARC: International Agency for Research on Cancer.

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.