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SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT

NAME OF THE PRODUCT Hardener HS Fast 2,5L (VOC)
REFERENCE 010004

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Regulation (EC) No1272/2008

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.



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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

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

Additional Labelling

As from 24 August 2023 adequate training is required before industrial or professional use.

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) No1907/2006 (point 3), the

product contains:

Identification	Chemical name/Classification	Concentration
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: 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: 108-65-6 EC: 203-603-9 Index: 607-195-00-7 REACH: 01-2119475791- 29-XXXX	2-methoxy-1-methylethyl acetate ² ATP ATP01 Regulation 1272/2008 Flam. Liq. 3: H226 - Warning	5 - <10%



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Hexamethylene-di-isocyanate¹

ATP CLP00

Regulation 1272/2008 Acute Tox. 3: H331 Eye Irrit. 2: H319

Resp. Sens. 1: H334 Skin Irrit. 2: H315 Skin Sens. 1: H317

Skin Sens. 1: H317 STOT SE 3: H335 - Danger <0,2%

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.

Other information

CAS: 822-06-0

EC: 212-485-8

37-XXXX

Index: 615-011-00-1

REACH: 01-2119457571-

Identification	Specific concentration limit	
Hexamethylene-di-isocyanate CAS: 822-06-0 EC: 212-485-8	% (w/w)>=0,5: Resp. Sens. 1 - H334 % (w/w)>=0,5: Skin Sens. 1 - H317	

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 lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of 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.



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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.



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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.



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8. 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		
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	IOELV (8h)	50 ppm	275 mg/m ³
	IOELV (STEL)	100 ppm	550 mg/m ³
Xylene CAS: 1330-20-7	IOELV (8h)	50 ppm	221 mg/m³
EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m³

DNEL (Workers)		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CÁS: 1330-20-7	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	442 mg/m ³	442 mg/m ³	221 mg/m ³	221 mg/m ³
Hexamethylene diisocyanate, oligomers	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
(<0.1% O=C=N- R-N=C=O)	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 28182-81-2 EC: 931-274-8	Inhalation	Non-applicable	1 mg/m³	Non-applicable	0,5 mg/m ³
2-methoxy-1-	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
methylethyl acetate CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	796 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	550 mg/m ³	275 mg/m ³	Non-applicable
Hexamethylene-di-	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
isocyanate CAS: 822-06-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 212-485-8	Inhalation	Non-applicable	0,07 mg/m ³	Non-applicable	0,035 mg/m ³

DNEL (General population)		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xvlene	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
CÁS: 1330-20-7	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	260 mg/m ³	260 mg/m ³	65,3 mg/m ³	65,3 mg/m ³
2-methoxy-1-methylethyl	Oral	Non-applicable	Non-applicable	36 mg/kg	Non-applicable
acetate CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	320 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	Non-applicable	33 mg/m ³	33 mg/m ³

PNEC

Identification				
	STP	6,58 mg/L	Fresh water	0,327 mg/L
Xylene CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg



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Hexamethylene	STP	88 mg/L	Fresh water	0,127 mg/L
diisocyanate, oligomers (<0.1% O=C=N- R-N=C=O)	Soil	53183 mg/kg	Marine water	0,013 mg/L
CAS: 28182-81-2	Intermittent	1,27 mg/L	Sediment (Fresh water)	266701 mg/kg
EC: 931-274-8	Oral	Non-applicable	Sediment (Marine water)	26670 mg/kg
2-methoxy-1-methylethyl	STP	100 mg/L	Fresh water	0,635 mg/L
acetate	Soil	0,29 mg/kg	Marine water	0,064 mg/L
CAS: 108-65-6	Intermittent	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
EC: 203-603-9	Oral	Non-applicable	Sediment (Marine water)	0,329 mg/kg
	STP	8,42 mg/L	Fresh water	Non-applicable
Hexamethylene-di-isocyanate CAS: 822-06-0	Soil	Non-applicable	Marine water	Non-applicable
EC: 212-485-8	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

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.

Respiratory protection

Mandatory respiratory tract protection.

Filter mask for gases, vapours and particles.

Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.



EN 149:2001+A1:2009 EN 405:2002+A1:2010

EN ISO 136:1998



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

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.



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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



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



Body protection

Mandatory foot protection.

Safety footwear with antistatic and heat resistant properties.

Replace boots at any sign of deterioration.



EN ISO 13287:2020 EN ISO 20345:2011





Additional emergency measures

Emergency shower.

ANSI Z358-1

ISO 3864-1:2011, ISO 3864-4:2011



Additional emergency measures

Eyewash stations.

DIN 12 899

ISO 3864-1:2011, ISO 3864-4:2011

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:

C.O.V. (Supply): 54,8% weight

V.O.C. density at 20°C: 542,52 kg/m³ (542,52 g/L)

Average carbon number: 7,71

Average molecular weight: 109,97 g/mol



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

For complete information see the product datasheet.

-or complete information see the product datasheet.	
Appearance	
Physical state at 20°C:	Liquid
Appearance:	Fluid
Colour:	Colorless
Odour:	Solvent
Odour threshold:	Non-applicable*
Volatility	
Boiling point at atmospheric pressure:	138 °C
Vapour pressure at 20°C:	701 Pa
Vapour pressure at 50°C:	3907,86 Pa (3,91 kPa)
Evaporation rate at 20°C:	Non-applicable*
Product description	
Density at 20°C:	980 - 1000 kg/m³
Relative density at 20°C:	0,98 - 1
Dynamic viscosity at 20°C:	42 - 24 cP
Kinematic viscosity at 20°C:	33 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
	C'II - II

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

9.2. Other information

5.2. 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.



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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
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not 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) No 1272/2008

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.



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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: 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. However, it contains substances classified as dangerous 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, as it does not contain substances classified as hazardous for this effect. 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
2-methoxy-1-methylethyl acetate	LD50 oral	8532 mg/kg	Rat
CAS: 108-65-6	LD50 dermal	5100 mg/kg	Rat
EC: 203-603-9	LC50 inhalation	30 mg/L (4h)	Rat
Xylene	LD50 oral	2100 mg/kg	Rat
AS: 1330-20-7	LD50 dermal	1100 mg/kg	Rat
EC: 215-535-7	LC50 inhalation	11 mg/L (ATEi)	
Hexamethylene diisocyanate, oligomers	LD50 oral	2660 mg/kg	Rat
(<0.1% O=C=N-R-N=C=O) CAS: 28182-81-2	LD50 dermal	>2000 mg/kg	
EC: 931-274-8	LC50 inhalation	11 mg/L (ATEi)	
Hexamethylene-di-isocyanate	LD50 oral	>2000 mg/kg	
CAS: 822-06-0	LD50 dermal	>2000 mg/kg	
EC: 212-485-8	LC50 inhalation	3 mg/L (ATEi)	



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Acute Toxicity Estimate (ATE mix)

	ATE mix	Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	2347,92 mg/kg (Calculation method)	0%
Inhalation	11,9 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		Specie	Genus
Xylene	LC50	>10 - 100 (96h)		Fish
CÁS: 1330-20-7	EC50	>10 - 100 (48h)		Crustacean
EC: 215-535-7	EC50	>10 - 100 (72h)		Algae
Hexamethylene diisocyanate,	LC50	Non-applicable		
oligomers (<0.1% O=C=N-R-N=C=O) CAS: 28182-81-2	EC50	Non-applicable		
EC: 931-274-8	EC50	1000 mg/L (72h)	Scenedesmus subspicatus	Algae
2-methoxy-1-methylethyl acetate	LC50	161 mg/L (96h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48h)	Daphnia sp.	Crustacean
EC: 203-603-9	EC50	Non-applicable		

Chronic toxicity

Identification	Concentration		Specie	Genus
Xylene CAS: 1330-20-7	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
EC: 215-535-7	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean
2-methoxy-1-methylethyl acetate	NOEC	47,5 mg/L	Oryzias latipes	Fish
CAS: 108-65-6 EC: 203-603-9	NOEC	100 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability

Substance-specific information

Identification	Degradability		Biodegradability	
Xvlene	BOD5	Non-applicable	Concentration	Non-applicable
CÁS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88%
2-methoxy-1-methylethyl acetate	BOD5	Non-applicable	Concentration	785 mg/L
CAS: 108-65-6	COD	Non-applicable	Period	8 days
EC: 203-603-9	BOD5/COD	Non-applicable	% Biodegradable	100%



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Hexamethylene-di-isocyanate	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 822-06-0	COD	Non-applicable	Period	28 days
EC: 212-485-8	BOD5/COD	Non-applicable	% Biodegradable	28%

12.3 Bioaccumulative potential

Substance-specific information

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

12.4. Mobility in soil

Identification	Absorption/desorp	tion	Volatility	
Xvlene	Koc	202	Henry	524,86 Pa·m³/mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes

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) No1907/2006 (REACH) the community or state provisions related to waste management are stated.



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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
3	14.6.Special precautions for user	
Ť	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:

VVICII IC	gard to 11100 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.Environmental hazards		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 n	umber	UN1263
14.2.UN proper shipping	name	PAINT RELATED MATERIAL
14.3.Transport hazard cl	ass(es)	3
Labels		3
14.4.Packing group		III
14.5.Environmental haza	ards	No
14.6.Special precautions	for user	
Physico-Chemical pro	perties	See section 9
14.7.Maritime transport	in bulk according to IMO instruments	Non-applicable



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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.

Contains more than 0.1% of Hexamethylene-di-isocyanate by weight. 1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) 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 ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

- 2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) 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 ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".
- 3. For the purpose of this entry "industrial and professional user(s)" means any worker or selfemployed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.
- 4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum: (a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s). (b)the training elements in points (a) and (b) of paragraph 5 for the following uses:
- -handling open mixtures at ambient temperature (including foam tunnels)
- -spraying in a ventilated booth.
- -application by roller.
- -application by brush.



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- -application by dipping and pouring.
- -mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore.
- -cleaning and waste.
- -any other uses with similar exposure through the dermal and/or inhalation route.
- (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:
- -handling incompletely cured articles (e.g. freshly cured, still warm).
- -foundry applications.
- -maintenance and repair that needs access to equipment.
- -open handling of warm or hot formulations (>45°C).
- -spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers).
- -and any other uses with similar exposure through the dermal and/or inhalation route.
- 5. Training elements: (a)general training, including on-line training, on:
- -chemistry of diisocyanates.
- -toxicity hazards (including acute toxicity).
- -exposure to diisocyanates.
- -occupational exposure limit values.
- -how sensitisation can develop.
- -odour as indication of hazard.
- -importance of volatility for risk.
- -viscosity, temperature, and molecular weight of diisocyanates.
- -personal hygiene.
- -personal protective equipment needed, including practical instructions for its correct use and its limitations.
- -risk of dermal contact and inhalation exposure.
- -risk in relation to application process used.
- -skin and inhalation protection scheme.
- -ventilation.
- -cleaning, leakages, maintenance.
- -discarding empty packaging.
- -protection of bystanders.
- -identification of critical handling stages.
- -specific national code systems (if applicable).
- -behaviour-based safety.
- -certification or documented proof that training has been successfully completed.
- (b) intermediate level training, including on-line training, on:
- -additional behaviour-based aspects.
- -maintenance.
- -management of change.
- -evaluation of existing safety instructions.
- -risk in relation to application process used.
- -certification or documented proof that training has been successfully completed.
- (c) advanced training, including on-line training, on:
- -any additional certification needed for the specific uses covered.
- -spraying outside a spraying booth.
- -open handling of hot or warm formulations (>45°C).
- -certification or documented proof that training has been successfully completed.
- 6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture (s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.
- 7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of



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the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.

- 8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.
- 9. Member States shall include in their reports pursuant to Article 117(1) the following information: (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law. (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates. (c) national exposure limits for diisocyanates, if there are any. (d) information about enforcement activities related to this restriction.
- 10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

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) No1907/2006 (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.



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CLP Regulation (EC) No 1272/2008

Acute Tox. 3: H331 - Toxic if inhaled.

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

Acute Tox. 4: H332 - Harmful if inhaled.

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.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.

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.