CATALIZZATORE: PLH

Revision nr. 2

Dated 30/01/2025

Printed on 30/01/2025

Page n. 1/18

Replaced revision:1 (Dated: 19/02/2024)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name CATALIZZATORE: PLH
UFI: XV43-X09N-K006-RVAW

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

Intended use Pad printing hardener.

1.3. Details of the supplier of the safety data sheet

Name COMEC ITALIA SRL
Full address Piazzale del lavoro 149
District and Country 21044 Cavaria (VA)
ITALIA

Tel. +39 0331 219516 Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet info@comec-italia.it Supplier: Edgardo Baggini

1.4. Emergency telephone number

For urgent inquiries refer to Centro Antiveleni di Milano 02 66101029

(Niguarda Ca Granda - Milano) Centro Antiveleni di Pavia 0382 24444 (Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo 800 883300 (Papa Giovanni XXIII - Bergamo)

Centro Antiveleni di Verona 800 011858

(AOUI - Verona)

Centro Antiveleni di Firenze 055 7947819

(Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343

(Agostino Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000

(Umberto I - Roma)

Centro Antiveleni di Roma 06 68593726 (Ospedale pediatrico Bambino Gesu - Roma) Centro Antiveleni di Napoli 081 5453333

(Antonio Cardarelli - Napoli)

Centro Antiveleni di Foggia 800 183459 (Azienda ospedaliera universitaria - Foggia)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and

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supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3 H226 Flammable liquid and vapour.

Acute toxicity, category 4 H332 Harmful if inhaled.

Specific target organ toxicity - repeated exposure, category 2 H373 May cause damage to organs through prolonged or repeated

exposure.

Eye irritation, category 2 H319 Causes serious eye irritation. Skin irritation, category 2 H315 Causes skin irritation.

Respiratory sensitization, category 1 H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Skin sensitization, category 1 H317 May cause an allergic skin reaction.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:







Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

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

H317 May cause an allergic skin reaction.

EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

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

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

P337+P313 If eye irritation persists: Get medical advice / attention.

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P370+P378 In case of fire: use chemical powder, CO2 or dry send to extinguish.

P501 Dispose of contents and container in accordance with the regulations.

Contains: XYLENE

Aromatic polyurethane adduct

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

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
identification	x = Conc. %	Classification (EC) 12/2/2008 (CLP)

Aromatic polyurethane adduct

INDEX - $66 \le x < 70$ Eye Irrit. 2 H319, Skin Sens. 1 H317

EC 500-120-8 CAS 53317-61-6

XYLENE

INDEX 601-022-00-9 16,5 \leq x < 18 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note

according to Annex VI to the CLP Regulation: C

EC 215-535-7 ATE Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11,58 mg/l/4h

CAS 1330-20-7

REACH Reg. 01-2119488216-32-

xxxx

2-METHOXY-1-METHYLETHYL

ACETATE
INDEX 607-195

CAS 26471-62-5

INDEX 607-195-00-7 $16.5 \le x < 18$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9 CAS 108-65-6

REACH Reg. 01-2119475791-29-

XXXX

m-Tolilidene diisocyanate

INDEX 615-006-00-4 0,48 ≤ x < 0,5 Carc. 2 H351, Acute Tox. 2 H330, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT

SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Aquatic Chronic 3 H412 EC 247-722-4 ATE Inhalation vapours: 0,501 mg/l

REACH Reg. 01-2119454791-34xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

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5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

7.3. Specific end use(s)

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Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

NDS/NDSCh

TLV

POL

ROU

260

275

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари
		СВ БРЗАПИ С ЕКСПОЗИЦИЯ ПА ХИМИЧПИ АГЕПТИ ПРИ РАБОТА (изм. дв. ор.э от 17 януари 2020г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se
OZL	Сезка Периынка	stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung
		gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28
		décembre 2021
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők
_{17.4}	Italia	hatásának kitett munkavállalók egészségének és biztonságának védelméről
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste
DDT	Б	lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à
		exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie
I TOL	1 Olska	w sprawie najwyższych dopuszczalnych steżeń i nateżeń czynników szkodliwych dla zdrowia w
		środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea
		si completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS
	-	2018:1)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733;
		20.10.2023 / 32345.
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;
		Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
	TIV 40000	2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

Туре	Country	Country TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	275	50	550	100	SKIN		
TLV	CZE	270	49,14	550	100,1	SKIN		
AGW	DEU	270	50	270	50			
MAK	DEU	270	50	270	50			
TLV	DNK	275	50	550	100	SKIN	E	
VLA	ESP	275	50	550	100	SKIN		
VLEP	FRA	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		
TGG	NLD	550						
VLE	PRT	275	50	550	100	SKIN		

520

550

50

SKIN

SKIN

100

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NGV/KGV	SWE	275			550	100	SKIN		
ESD	TUR	275		50	550	100	SKIN		
WEL	GBR	274		50	548	100	SKIN		
OEL Predicted no-effect con	EU	275		50	550	100	SKIN		
Normal value in fresh v		:0			0,635	me	·/I		
Normal value in marine					0,035	mç	,		
Normal value for fresh					3,29	mg	_J /kg		
Normal value for marin		+			0,329				
Normal value for water						mg			
	<i>'</i>	ast			6,35	mg			
Normal value of STP m		mont			100	mg			
Health - Derived no			El		0,29	mç	ı/kg		
neaith - Derived no	Effe	ects on sumers	EL			Effects on workers			
Route of exposure			Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				VND	1,67 mg/kg				- Cycloniii
Inhalation				33 mg/m3	33 mg/m3	550 mg/m3		VND	275 mg/m3
				VND	54,8 mg/kg			VND	153,5 mg/k
Skin				VIVD	o 1,0 111g/11g				
				VND	0 1,0 mg/ng				
XYLENE Threshold Limit Va		TWA/8h			STEL/15min		Remark	es /	
XYLENE Threshold Limit Va	alue Country				STEL/15min	ppm	Remark Observa		
XYLENE Threshold Limit Va Type		TWA/8h mg/m3		ppm		ppm 100			
XYLENE Threshold Limit Va Type TLV TLV	Country	mg/m3		ppm	STEL/15min mg/m3		Observa		
XYLENE Threshold Limit Va Type TLV	Country	mg/m3 221		ppm 50	STEL/15min mg/m3 442	100	Observa		
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XYLENE Threshold Limit Va Type TLV TLV AGW MAK	BGR CZE DEU	mg/m3 221 200 220		ppm 50 45,4 50	STEL/15min mg/m3 442 400 440	100 90,8 100	SKIN SKIN SKIN		
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XYLENE Threshold Limit Va Type TLV TLV TLV AGW MAK TLV VLA VLEP TGG VLE NDS/NDSCh TLV NGV/KGV ESD WEL	BGR CZE DEU DEU DNK ESP FRA HUN ITA NLD PRT POL ROU SWE TUR GBR EU	mg/m3 221 200 220 220 109 221 221 221		ppm 50 45,4 50 50 25 50 50 50 50 50 50 50 50 50 50	STEL/15min mg/m3 442 400 440 440 442 442 442 442 442 442	100 90,8 100 100 100 100 100 100 100 10	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	ations	

Revision nr. 2 **COMEC ITALIA SRL** Dated 30/01/2025 Printed on 30/01/2025 CATALIZZATORE: PLH Page n. 8/18 Replaced revision:1 (Dated: 19/02/2024) Normal value in marine water 0.327 mg/l Normal value for fresh water sediment 12.46 mg/kg Normal value for marine water sediment 12,46 mg/kg Normal value for water, intermittent release 0,327 mg/l Normal value of STP microorganisms 6,58 ma/l Normal value for the terrestrial compartment 2 31 ma/ka Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Chronic local Chronic Route of exposure Acute local Acute systemic Chronic Acute local Acute Chronic local systemic systemic systemic VND Oral 1,6 mg/kg/d Inhalation 174 mg/m3 174 mg/m3 VND 14,8 mg/m3 289 mg/m3 289 mg/m3 77 mg/m3 77 mg/m3 VND 108 mg/kg/d VND VND 180 mg/kg 174 mg/m3 m-Tolilidene diisocyanate **Threshold Limit Value** Type Country TWA/8h STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm NDS/NDSCh POL 0,007 0,021 NGV/KGV SWE 0,014 0,002 0,04 0,005 TLV-ACGIH 0,036 0,005 0,14 0,02 Predicted no-effect concentration - PNEC Normal value in fresh water 0.0125 mg/l Normal value in marine water 0.00125 mg/l Normal value for water, intermittent release 0,125 mg/l Normal value of STP microorganisms mg/l Normal value for the terrestrial compartment 1 mg/kg

Leaend:

Inhalation

Route of exposure

(C) = CEILING $\,$; INHAL = Inhalable Fraction $\,$; RESP = Respirable Fraction $\,$; THORA = Thoracic Fraction.

Acute systemic

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

Chronic

systemic

Chronic local

Effects on

Acute local

0.14 mg/m3

Acute

systemic

0,14 mg/m3

Chronic local

0,035 mg/m3

Chronic

systemic

0.035 ma/m3

workers

8.2. Exposure controls

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Acute local

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

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Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

	Properties Appearance	Value liquid	Information
	Colour	colourless	
	Odour	typical of solvent	
	Melting point / freezing point	not available	
	Initial boiling point	> 130 °C	
	Flammability	not available	
	Lower explosive limit	not available	
	Upper explosive limit	not available	
	Flash point	27 °C	
	Auto-ignition temperature	not available	
	Decomposition temperature	not available	
	рН	not available	
	Kinematic viscosity	not available	
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Solubility insoluble in water
Partition coefficient: n-octanol/water not available
Vapour pressure not available
Density and/or relative density not available
Relative vapour density not available
Particle characteristics not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

XYLENE

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

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10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

XYLENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

XYLENE

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

XYLENE

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: Acute Tox. 4

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)
Not classified (no significant component)

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Coniglio / Rabbit LD50 (Oral): 8500 mg/kg Ratto / Rat

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LC50 (Inhalation vapours):

4345 ppm/6h Ratto / Rat

XYLENE

LD50 (Dermal): ATE (Dermal):

LD50 (Oral): LC50 (Inhalation vapours):

m-Tolilidene diisocyanate

LD50 (Dermal): LD50 (Oral):

LC50 (Inhalation vapours): ATE (Inhalation vapours):

4350 mg/kg Rabbit

1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

3523 mg/kg Rat 11,58 mg/l/4h Rat

> 9400 mg/kg Coniglio / Rabbit 4130 mg/kg Ratto / Rat 0,47 mg/l/1h Ratto / Rat

0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Sensitising for the respiratory system

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

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Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

m-Tolilidene diisocyanate

LC50 - for Fish 133 mg/l/96h

EC50 - for Crustacea 12,5 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants 3230 mg/l/96h 96h
Chronic NOEC for Crustacea 1,1 mg/l 504h

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish 134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203

EC50 - for Crustacea > 500 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Selenastrum capricornutum OECD 201

Chronic NOEC for Fish 47,5 mg/l Oryzias latipes 14 gg OECD 204
Chronic NOEC for Crustacea 100 mg/l Dapnia magna 21 gg OECD 202

12.2. Persistence and degradability

m-Tolilidene diisocyanate NOT rapidly degradable

XYLENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable OECD GI 301F 83% 10 d

12.3. Bioaccumulative potential

m-Tolilidene diisocyanate

Partition coefficient: n-octanol/water 3,43

XYLENE

Partition coefficient: n-octanol/water 3,12 BCF 25,9

2-METHOXY-1-METHYLETHYL ACETATE

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Partition coefficient: n-octanol/water 1.2 **BCF** 100

12.4. Mobility in soil

XYLENE

Partition coefficient: soil/water

2.73

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

UN 1866 ADR / RID, IMDG, IATA:

14.2. UN proper shipping name

ADR / RID: **RESIN SOLUTION** IMDG: **RESIN SOLUTION** IATA: **RESIN SOLUTION**

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14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

Ш

14.5. Environmental hazards

ADR / RID:

IMDG:

not marine pollutant

IATA:

NO

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Limited Quantities: 5

Tunnel restriction code: (D/E)

Special provision: -

IMDG:

EMS: F-E, S-E

Passengers:

Limited

Quantities: 5

IATA:

Cargo:

Maximum quantity: 220

instructions:

Packaging 366

Maximum

Packaging

quantity: 60 L

instructions:

А3

355

Special provision:

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

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Contained substance

Point 75 m-Tolilidene diisocyanate REACH

Reg.: 01-2119454791-34-xxxx

Point 75 XYLENE REACH Reg.: 01-

2119488216-32-xxxx

Point 74 DIISOCYANATES

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3
Carc. 2 Carcinogenicity, category 2
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 4 Acute toxicity, category 4

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Asp. Tox. 1 Aspiration hazard, category 1

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

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Resp. Sens. 1 Respiratory sensitization, category 1
Skin Sens. 1 Skin sensitization, category 1

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H226 Flammable liquid and vapour.H351 Suspected of causing cancer.

H330 Fatal if inhaled.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

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

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH204 Contains isocyanates. May produce an allergic reaction.

I EGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- · IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative

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vPvM: Very persistent and very mobile WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- Regulation (EC) 1272/2008 (CLP) of the European Parliament
 Regulation (EU) 2020/878 (II Annex of REACH Regulation)
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- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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- Patty Industrial Hygiene and Toxicology
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- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP. Part 3. unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

For information on any exposure scenarios of the substances present in the mixture, contact Sericom Italia srl.

Changes to previous review:

The following sections were modified:

02 / 03 / 04 / 07 / 08 / 11 / 13 / 14 / 15.