COMEC	ITALIA SRL	Revision nr. 2					
		Dated 14/03/2023					
ADDITI	VO: PLP 2,	Printed on 14/03/2023					
	<i>.</i>	Page n. 1/18					
		Replaced revision:1 (Dated: 15/03/2021)					
Safety Data Sheet According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH							
SECTION 1. Identification of the subs	stance/mixture and of the company/under	taking					
<b>1.1. Product identifier</b> Product name UFI :	ADDITIVO: PLP 2, DQN0-W0SS-7009-2YFW						
	1.2. Relevant identified uses of the substance or mixture and uses advised against         Intended use       Screen printing additive.						
<b>1.3. Details of the supplier of the safety data sheet</b> Name Full address District and Country	COMEC ITALIA SRL Piazzale del lavoro 149 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 Supplier:	info@comec-italia.it Edgardo Baggini						
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	CENTRO ANTIVELENI OSPEDALE NIGUARDA MILANO CENTRO ANTIVELENI POLICLINICO A.GEMELL ROMA						
SECTION 2. Hazards identification							
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							

supplements). The product its classified as nazardous pursuant to the provisions set forth in (EC) Regulation 12/2/2008 (CLP) (and subsequent amendments and 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.

repeated

#### 2.2. Label elements

			<u> </u>				
	COMEC IT	ALIA SRL	Revision nr. 2 Dated 14/03/2023				
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Hazard pictograms: Signal words: Dan Hazard statements: H226 Fla H332 Hai H304 Ma H373 Ma H319 Cai H315 Cai H335 Ma	nger mmable liquid and vapour. rmful if inhaled. y be fatal if swallowed and	through prolonged or repeated exposure.					
Precautionary statements:	·		smokina.				
P331         Do           P280         We           P301+P310         IF 5           P370+P378         In c	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do NOT induce vomiting. Wear protective gloves/ protective clothing / eye protection / face protection. IF SWALLOWED: Immediately call a POISON CENTER. In case of fire: use chemical powder, CO2 or dry send to extinguish. Avoid breathing dust, gas or vapours.						
	XYLENE (MIXTURE OF ISOMERS) ETHYLBENZENE						
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. Compos	SECTION 3. Composition/information on ingredients						
3.2. Mixtures							
Contains:							
Identification XYLENE (MIXTURE OF ISON INDEX 601-022-00-9	x = Conc. % IERS) 50 ≤ x < 54	Classification (EC) 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H3 STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412, Classification note according to	STOT SE 3 H335,				

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EC 215-535-7 CAS 1330-20-7		Regulation: C STA Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11,58 mg/l/4h
REACH Reg. 01-2119488216-32- xxxx ETHYLBENZENE		
INDEX 601-023-00-4	4,5≤x< 5	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373
EC 202-849-4		LC50 Inhalation vapours: 17,2 mg/l/4h
CAS 100-41-4		
REACH Reg. 01-2119489370-35- xxxx CHLOROBENZENE		
INDEX 602-033-00-1	$3,5 \le x \le 4$	Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Irrit. 2 H315, Aquatic Chronic 2 H411
EC 203-628-5		LC50 Inhalation vapours: 15,5 mg/l/4h
CAS 108-90-7		
REACH Reg. 01-2119432722-45- xxxx		

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

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

#### **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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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.

#### 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:

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
		2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se
		stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.
		MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher
		Arbeitsstoffe, Mitteilung 56
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 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste
		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
		w sprawie najwyższych dopuszczalnych stężeń i natężeń 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
		și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS
TUD	<b>T</b> = 1 :	
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
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
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021
		AGGI172021

# XYLENE (MIXTURE OF ISOMERS)

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	221	50	442	100	SKIN		
TLV	CZE	200	45,4	400	90,8	SKIN		
AGW	DEU	440	100	880	200	SKIN		
MAK	DEU	440	100	880	200	SKIN		
TLV	DNK	109	25			SKIN	E	
VLA	ESP	221	50	442	100	SKIN		
VLEP	FRA	221	50	442	100	SKIN		
VLEP	ITA	221	50	442	100	SKIN		
TGG	NLD	210		442		SKIN		
VLE	PRT	221	50	442	100	SKIN		
NDS/NDSCh	POL	100		200		SKIN		
TLV	ROU	221	50	442	100	SKIN		
NGV/KGV	SWE	221	50	442	100	SKIN		

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ESD	TUR	221	50	442	100	SKIN		
WEL	GBR	220	50	441	100	SKIN		
OEL	EU	220	50	441	100	SKIN		
	EU	221		442	100	SKIN		
TLV-ACGIH			20					
Predicted no-effect concen								
Normal value in fresh wate				0,327	mg			
Normal value in marine wa		0,327	mg					
Normal value for fresh water sediment				12,46	mg	l/kg		
Normal value for marine wa	ater sediment			12,46	mg	ı/kg		
Normal value for water, inte	ermittent release			0,327	mg	J/I		
Normal value of STP micro	organisms			6,58	mg	J/I		
Normal value for the terres	trial compartment			2,31	mg	ı/kg		
Health - Derived no-ef	fect level - DNEL / D Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral			VND	systemic 1,6 mg/kg/d		systemic		systemic
Inhalation	174 mg/m3	174 mg/m3	VND	14,8 mg/m3	289 mg/m3	289 mg/m3	77 mg/m3	77 mg/m3
Skin			VND	108 mg/kg/d	174 mg/m3	VND	VND	180 mg/kg
ETHYLBENZENE Threshold Limit Value		T1A/ A /0L				Demender		
Туре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	435		545		SKIN		
TLV	CZE	200	45,4	500	113,5	SKIN		
TLV AGW	DEU	200 88	45,4 20	500 176	40	SKIN		
AGW								
AGW MAK	DEU	88	20	176	40	SKIN	E	
	DEU DEU	88 88	20 20	176	40	SKIN SKIN	E	
AGW MAK TLV	DEU DEU DNK	88 88 217	20 20 50	176 176	40 40	SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP	DEU DEU DNK ESP	88 88 217 441	20 20 50 100	176 176 884	40 40 200	SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP VLEP	DEU DEU DNK ESP FRA	88 88 217 441 88,4	20 20 50 100 20	176 176 884 442	40 40 200 100	SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP TGG	DEU DEU DNK ESP FRA ITA	88           88           217           441           88,4           442	20 20 50 100 20	176 176 884 442 884	40 40 200 100	SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP VLEP TGG VLE	DEU DEU DNK ESP FRA ITA NLD	88           88           217           441           88,4           442           215	20 20 50 100 20 100	176 176 884 442 884 430	40 40 200 100 200	SKIN SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP TGG VLE NDS/NDSCh	DEU DEU DNK ESP FRA ITA NLD PRT	88           88           217           441           88,4           442           215           442	20 20 50 100 20 100	176 176 884 442 884 430 884	40 40 200 100 200	SKIN SKIN SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP TGG VLE NDS/NDSCh TLV	DEU DEU DNK ESP FRA ITA NLD PRT POL	88           88           217           441           88,4           442           215           442           200	20 20 50 100 20 100 100	176 176 884 442 884 430 884 430 884 400	40 40 200 100 200 200	SKIN SKIN SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP TGG VLE NDS/NDSCh TLV NGV/KGV	DEU DEU DNK ESP FRA ITA NLD PRT POL ROU	88           88           217           441           88,4           442           215           442           200           442	20 20 50 100 20 100 100	176 176 884 442 884 430 884 400 884	40 40 200 100 200 200 200	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP TGG VLE NDS/NDSCh TLV NGV/KGV ESD	DEU DEU DNK ESP FRA ITA NLD PRT POL ROU SWE	88       88       217       441       88,4       442       215       442       200       442       220	20 20 50 100 20 100 100 100 50	176 176 884 442 884 430 884 430 884 400 884 884	40 40 200 100 200 200 200 200 200	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA	DEU DEU DNK ESP FRA ITA NLD PRT POL ROU SWE TUR	88         88         217         441         88,4         442         215         442         200         442         220         442	20 20 50 100 20 100 100 50 100	176 176 884 442 884 430 884 400 884 884 884 884	40 40 200 100 200 200 200 200 200 200	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV NGV/KGV ESD WEL OEL	DEU DEU DNK ESP FRA ITA NLD PRT POL ROU SWE TUR GBR	88         88         217         441         88,4         442         215         442         200         442         220         442         441	20 20 50 100 20 100 100 50 100 100	176 176 884 442 884 430 884 430 884 400 884 884 884 884 552	40 40 200 100 200 200 200 200 200 200 125	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP TGG VLE NDS/NDSCh TLV NGV/KGV ESD WEL	DEU DEU DNK ESP FRA ITA NLD PRT POL ROU SWE TUR GBR EU	88         88         217         441         88,4         442         215         442         200         442         220         442         442         442         442         442         442         442         442         442         442         442         442         442         441         442	20 20 50 100 20 100 100 50 100 100 100	176 176 884 442 884 430 884 430 884 400 884 884 884 884 552	40 40 200 100 200 200 200 200 200 200 125	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	E	
AGW MAK TLV VLA VLEP TGG VLE NDS/NDSCh TLV NGV/KGV ESD WEL OEL TLV-ACGIH	DEU DEU DNK ESP FRA ITA NLD PRT POL ROU SWE TUR GBR EU	88         88         217         441         88,4         442         215         442         200         442         220         442         442         442         442         442         442         442         442         442         442         442         442         442         441         442	20 20 50 100 20 100 100 50 100 100 100	176 176 884 442 884 430 884 430 884 400 884 884 884 884 552	40 40 200 100 200 200 200 200 200 125 200	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	E	

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Normal value for fresh water sediment	13,7	mg/kg ECHA 2018	
Normal value for marine water sediment	1,37	mg/kg ECHA 2018	
Normal value for water, intermittent release	0,1	mg/I ECHA 2018	
Normal value of STP microorganisms	9,6	mg/I ECHA 2018	
Normal value for the food chain (secondary poisoning)	20	mg/kg ECHA 2018	
Normal value for the terrestrial compartment	2,68	mg/kg ECHA 2018	. <u> </u>

### CHLOROBENZENE

Туре	Country	TWA/8h	TWA/8h		I	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	23	5	70	15		
TLV	CZE	25	6,8	70	19,04		
AGW	DEU	23	5	46	10		
MAK	DEU	23	5	46	10		
TLV	DNK	23	5			E	E
VLA	ESP	23	5	70	15		
VLEP	FRA	23	5	70	15		
VLEP	ITA	23	5	70	15		
TGG	NLD	23		70			
VLE	PRT	23	5	70	15		
NDS/NDSCh	POL	23		70			
TLV	ROU	23	5	70	15		
NGV/KGV	SWE	23	5	70	15		
ESD	TUR	23	5	70	15		
WEL	GBR	4,7	1	14	3	SKIN	
OEL	EU	23	5	70	15		
TLV-ACGIH		46	10				

Fredicted no-enect concern								
Normal value in fresh water					mg	/I		
Normal value in marine wat	ter			0,0032	mg	/I		
Normal value for fresh wate	er sediment			15,6	mg	/kg		
Normal value for water, intermittent release					mg	/I		
Normal value of STP microorganisms					mg	/I		
Normal value for the terrest	0,865	mg	/kg/d					
Health - Derived no-eff	fect level - DNEL / D	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,3 mg/kg bw/d		•		*		•
Inhalation				4,4 mg/m3				17,8 mg/m3
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d

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Legend:

#### (C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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.

#### 8.2. Exposure controls

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.

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 (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, 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). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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. The protection provided by masks is in any case limited.

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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties

Value

Information

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Appearance	liquid
Colour	colourless
Odour	typical of solvent
Melting point / freezing point	not available
Initial boiling point	> 115 °C
Flammability	not available
Lower explosive limit	not available
Upper explosive limit	not available
Flash point	28 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
рН	not available
Kinematic viscosity	not available
Solubility	not available
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	0,96
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.

#### 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.

#### XYLENE (MIXTURE OF ISOMERS)

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

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with: air.

#### ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Information not available

#### 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.

#### ETHYLBENZENE

May develop: methane,styrene,hydrogen,ethane.

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS) WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

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

#### XYLENE (MIXTURE OF ISOMERS)

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

#### ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

#### Interactive effects

#### XYLENE (MIXTURE OF ISOMERS)

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: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	19,19 mg/l Not classified (no significant component) >2000 mg/kg
XYLENE (MIXTURE OF ISOMERS)	

LD50 (Dermal): STA (Dermal):

LD50 (Oral): LC50 (Inhalation vapours):

#### ETHYLBENZENE

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

#### CHLOROBENZENE

LD50 (Oral): LC50 (Inhalation vapours):

#### epoxidized oil

LD50 (Oral):

SKIN CORROSION / IRRITATION

Causes skin irritation

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

15354 mg/kg Rabbit 3500 mg/kg Rat 17,2 mg/l/4h Rat

> 2000 mg/kg Rat 15,5 mg/l/4h Rat

> 3200 mg/kg Ratto / Rat

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#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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 (MIXTURE OF ISOMERS)

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".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

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May cause damage to organs

#### ASPIRATION HAZARD

Toxic for aspiration

#### 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**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity** 

	ETHYLBENZENE	
	LC50 - for Fish	4,2 mg/l/96h Oncorhynchus mykiss OECD TG 203
	EC50 - for Crustacea	2,4 mg/l/48h Daphnia magna (database Ecotox)
	EC50 - for Algae / Aquatic Plants	3,6 mg/l/72h Pseudokirchneriella subcapitata (IUCLID)
	CHLOROBENZENE	
	LC50 - for Fish	7,72 mg/l/96h Pimephales promelas
	12.2. Persistence and degradability	
	XYLENE (MIXTURE OF ISOMERS)	100 1000 m m
	Solubility in water	100 - 1000 mg/l
	Rapidly degradable ETHYLBENZENE	
	Solubility in water	200 mg/l ECHA 2018/05/18
	Rapidly degradable CHLOROBENZENE	
	Solubility in water	100 - 1000 mg/l
	NOT rapidly degradable	
	12.3. Bioaccumulative potential	
	XYLENE (MIXTURE OF ISOMERS)	
	Partition coefficient: n-octanol/water	3,12
	BCF	25,9
	ETHYLBENZENE	
	Partition coefficient: n-octanol/water	3,6
	CHLOROBENZENE	
	Partition coefficient: n-octanol/water	3
- 1		

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### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73
CHLOROBENZENE	
Partition coefficient: soil/water	2,42

### 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  $\geq$  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.

CONTAMINATED PACKAGING

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

### **SECTION 14. Transport information**

Class: 3

#### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1993

#### 14.2. UN proper shipping name

ADR / RID:	FLAMMABLE LIQUID, N.O.S. (ETHYLBENZENE; XYLENE (MIXTURE OF ISOMERS))
IMDG:	FLAMMABLE LIQUID, N.O.S. (ETHYLBENZENE; XYLENE (MIXTURE OF ISOMERS))
IATA:	FLAMMABLE LIQUID, N.O.S. (ETHYLBENZENE; XYLENE (MIXTURE OF ISOMERS))

#### 14.3. Transport hazard class(es)

/ RID:

Label: 3



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IMDG:	Class: 3	Label: 3	*	
IATA:	Class: 3	Label: 3		
4.4. Packing gr	oup		•	
ADR / RID, IMD	DG, IATA:	III		
4.5. Environme	ntal hazards			
ADR / RID:	NO			
IMDG:	NO			
IATA:	NO			
4.6. Special pre	ecautions for user			
ADR / RID:		HIN - Kemler: 30	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
		Special provision: 274, 601	-	
IMDG:		EMS: F-E, <u>S-E</u>	Limited Quantities: 5 I	
		Cargo:	∟ Maximum quantity: 220	Packaging instructions:
IATA:			L	366
IATA:		Pass.:	L Maximum quantity: 60 L	366 Packaging instructions: 355

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
Contained substance	
Point	75

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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  $\geq$  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. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
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
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.

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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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
<ul> <li>ATE: Acute Toxicity Estim</li> <li>CAS: Chemical Abstract S</li> <li>CE50: Effective concentra</li> <li>CE: Identifier in ESIS (Eur</li> <li>CLP: Regulation (EC) 127</li> <li>DNEL: Derived No Effect</li> <li>EmS: Emergency Schedu</li> <li>GHS: Globally Harmonize</li> <li>IATA DGR: International A</li> <li>IC50: Immobilization Concentrational Maritim</li> <li>IMDG: International Maritim</li> <li>IMDEX: Identifier in Annex</li> <li>LC50: Lethal Concentration</li> <li>DDEL: Occupational Exposs</li> <li>PBT: Persistent bioaccum</li> <li>PEC: Predicted environme</li> <li>PEL: Predicted no effect</li> <li>REACH: Regulation (EC)</li> <li>RID: Regulation concernir</li> <li>TLV: Threshold Limit Valu</li> <li>TLV CEILING: Concentrata</li> <li>TWA: Time-weighted aver</li> <li>TVA STEL: Short-term ex</li> <li>VOC: Volatile organic Cor</li> </ul>	iervice Number tion (required to induce a 50% effect) opean archive of existing substances) 2/2008 _evel le d System of classification and labeling of chemicals ir Transport Association Dangerous Goods Regulation :entration 50% me Code for dangerous goods e Organization :VI of CLP in 50% ure Level ulative and toxic as REACH Regulation entral Concentration evel is concentration 1907/2006 g the international transport of dangerous goods by train e ion that should not be exceeded during any time of occupational exposure. age exposure limit posure limit popunds very Bioaccumulative as for REACH Regulation
<ol> <li>Regulation (EC) 1272/20</li> <li>Regulation (EU) 2020/87</li> <li>Regulation (EU) 2020/87</li> <li>Regulation (EU) 286/201</li> <li>Regulation (EU) 286/201</li> <li>Regulation (EU) 487/201</li> <li>Regulation (EU) 944/201</li> <li>Regulation (EU) 944/201</li> <li>Regulation (EU) 2015/1</li> <li>Regulation (EU) 2016/9</li> <li>Regulation (EU) 2017/7</li> <li>Regulation (EU) 2017/7</li> <li>Regulation (EU) 2018/6</li> <li>Regulation (EU) 2019/5</li> <li>Delegated Regulation (I</li> <li>Regulation (EU) 2019/1</li> <li>Regulation (EU) 2019/1</li> </ol>	06 (REACH) of the European Parliament 08 (CLP) of the European Parliament 8 (II Annex of REACH Regulation) 9 (I Atp. CLP) of the European Parliament 1 (II Atp. CLP) of the European Parliament 2 (III Atp. CLP) of the European Parliament 3 (IV Atp. CLP) of the European Parliament 3 (V Atp. CLP) of the European Parliament 4 (VI Atp. CLP) of the European Parliament 221 (VII Atp. CLP) of the European Parliament 18 (VIII Atp. CLP) of the European Parliament 179 (IX Atp. CLP) 60 (XI Atp. CLP) 60 (XI Atp. CLP) 21 (XII Atp. CLP)

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20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP) 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- 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 / 08 / 09 / 11 / 12 / 14 / 15 / 16.