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PLT 47: 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR, 65 NR, 70 TR,

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

PLT 47: INK SYSTEM. Product name

10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR, 65 NR, 70 TR,

UFI: QUC3-X06T-D009-AHJ4

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

Intended use Pad printing ink

1.3. Details of the supplier of the safety data sheet

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

ΙΤΔΙ ΙΔ

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 Edgardo Baggini

Supplier:

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

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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 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:

Serious eye damage, category 1

Flammable liquid, category 3 H226 Flammable liquid and vapour.

Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways.

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

exposure.

H318 Causes serious eye damage.

Skin irritation, category 2 H315 Causes skin irritation.

Specific target organ toxicity - single exposure, category 3 H335 May cause respiratory irritation.

Hazardous to the aquatic environment, chronic toxicity, H412 Harmful to aquatic life with long lasting effects.

category 3

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.

H304 May be fatal if swallowed and enters airways.

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

H318 Causes serious eye damage.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains: MALEIC ANHYDRIDE, Essential oil sweet orange

May produce an allergic reaction.

Precautionary statements:

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

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

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

P310 Immediately call a POISON CENTER or a doctor.

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

Contains: XYLENE (MIXTURE OF ISOMERS)

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CYCLOHEXANONE

Hydrocarbons, C10, aromatics, <1% naphtalene

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

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
XYLENE (MIXTURE OF ISOMERS)		
INDEX 601-022-00-9	16,5 ≤ x < 18	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C
EC 215-535-7		STA Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11,58 mg/l/4h
CAS 1330-20-7		
REACH Reg. 01-2119488216-32- xxxx ETHYLBENZENE		
INDEX 601-023-00-4	$4 \le x < 4,5$	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 Hydrocarbons, C10, aromatics, <1% naphtalene		
INDEX -	$4 \le x < 4,5$	Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066
EC 918-811-1		
CAS -		
REACH Reg. 01-2119463583-34- xxxx BUTANOL		
INDEX 603-004-00-6	$3,5 \le x < 4$	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
EC 200-751-6		STA Oral: 500 mg/kg
CAS 71-36-3		
REACH Reg. 01-2119484630-38		
CYCLOHEXANONE		
INDEX 606-010-00-7	$3,5 \le x < 4$	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335
EC 203-631-1		LD50 Oral: 1535 mg/kg, LD50 Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11 mg/l/4h
CAS 108-94-1		TT HIGHT

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REACH Reg. 01-2119453616-35xxxx **2-ETHOSSI-1-METHYL ETHYL**

ACETATE

INDEX 603-177-00-8 3,5 ≤ x < 4

Flam. Liq. 3 H226, STOT SE 3 H336

EC 259-370-9 CAS 54839-24-6

REACH Reg. 01-2119475116-

39xxxx

Essential oil sweet orange

INDEX 0,14 ≤ x < 0,16 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 1 H410 M=1

EC -

CAS 8008-57-9

EC 203-571-6

MALEIC ANHYDRIDE

INDEX 607-096-00-9 0 ≤ x < 0,001 Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1B H314, Eye Dam. 1

H318, Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071

Skin Sens. 1A H317: ≥ 0,001%

CAS 108-31-6 LD50 Oral: 400 mg/kg

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

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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.

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

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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)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	HADEREA No 12 OT 20 REVEMBRIA 2002 F. 2A 2AHHATA HA DAEOTEHHATE OT DIACKORE
DGR	выпария	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
DOI	B.1.1	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
ROU	România	środowisku pracy
ROU	Romania	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
CML	Cyarina	
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
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

XYLENE (MIXTURE	OF ISOMERS)							
Threshold Limit Va								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observation	ıs	
		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		

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NDS/NDSCh	POL	100		200		SKIN		
TLV	ROU	221	50	442	100	SKIN		
NGV/KGV	SWE	221	50	442	100	SKIN		
ESD	TUR	221	50	442	100	SKIN		
WEL	GBR	220	50	441	100	SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH			20					
Predicted no-effect conce	entration - PNEC							
Normal value in fresh wat	er			0,327	mg	1/I		
Normal value in marine w	ater			0,327	mg	1/ I		
Normal value for fresh wa	iter sediment			12,46	mg	ı/kg		
Normal value for marine v	vater sediment			12,46	mg	ı/kg		
Normal value for water, in	termittent release			0,327	mg	ı/l		
Normal value of STP micr	roorganisms			6,58	mg	1/ I		
Normal value for the terre	estrial compartment			2,31	mg	ı/kg		
Health - Derived no-e	effect level - DNEL / [OMEL						
	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			VND	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
Skin			VND	108 mg/kg/d	174 mg/m3	VND	VND	180 mg/kg

Tuno	Country	TWA/8h		STEL/15min		Remarks /		
Type	Country					Observations	i	
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	435		545		SKIN		
TLV	CZE	200	45,4	500	113,5	SKIN		
AGW	DEU	88	20	176	40	SKIN	-	
MAK	DEU	88	20	176	40	SKIN	-	
TLV	DNK	217	50			SKIN	E	
VLA	ESP	441	100	884	200	SKIN		
VLEP	FRA	88,4	20	442	100	SKIN		
VLEP	ITA	442	100	884	200	SKIN		
TGG	NLD	215		430		SKIN		
VLE	PRT	442	100	884	200	SKIN		
NDS/NDSCh	POL	200		400		SKIN		
TLV	ROU	442	100	884	200	SKIN		
NGV/KGV	SWE	220	50	884	200	SKIN		
ESD	TUR	442	100	884	200	SKIN		
WEL	GBR	441	100	552	125	SKIN		
OEL	EU	442	100	884	200	SKIN		
TLV-ACGIH		87	20					

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BUTANOL

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,1	mg/I ECHA 2018	
Normal value in marine water	0,01	mg/I ECHA 2018	
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	

Hydrocarbons, C10, aron								
Health - Derived no-effect	ct level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral			VND	7,5 mg/kg/d				
Inhalation			VND	32 mg/m3			VND	151 mg/m3
01.			VAID	7.5 " / 1			VAID	40.5 // //
Skin			VND	7,5 mg/kg/d			VND	12,5 mg/kg/d

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	100		150			
TLV	CZE	300	97,5	600	195		
AGW	DEU	310	100	310	100		
MAK	DEU	310	100	310	100		
TLV	DNK			150 (C)	50 (C)	SKIN	
VLA	ESP	61	20	154	50		
VLEP	FRA			150	50		
TGG	NLD			45			
NDS/NDSCh	POL	50		150		SKIN	
TLV	ROU	100	33	200	66		
NGV/KGV	SWE	45	15	90	30	SKIN	
WEL	GBR			154	50	SKIN	
TLV-ACGIH		61	20				
Predicted no-effect cond	entration - PNEC						
Normal value in fresh wa	ater			0,082	m	g/l	
Normal value in marine	water			0,0082	m	g/I	
Normal value for fresh w	ater sediment			0,178	m	g/kg	
Normal value for marine	water sediment			0,0178	m	g/kg	
Normal value for water,	intermittent release			2,25	m	g/l	
Normal value of STP mi	croorganisms			2476	m	g/l	
Normal value for the terr	restrial compartment			0,015	m	g/kg	

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Health - Derived no-eff	ect level - DNEL / D	OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3125 mg/kg				
Inhalation			55 mg/m3	VND			310 mg/m3	VND

		TWA/8h		STEL/15min		Remarks / Observation	9	
		mg/m3	ppm	mg/m3	ppm	Obcorvation		
AGW	DEU	120	20	240	40	SKIN	14	
MAK	DEU	120	20	240	40	SKIN	Hinweis	
Predicted no-effect concentration	ı - PNEC							
Normal value in fresh water				2	mg/			
Normal value in marine water		-		0,8	mg/	ĺ		
Normal value for fresh water sed	iment			8,2	mg/	kg		
Normal value for marine water se	diment			0,6	mg/	kg		
Normal value for water, intermitte	ent release			2	mg/	l		
Normal value of STP microorgan	isms			62,5	mg/	kg		
Normal value for the food chain (secondary poisor	ning)		117	mg/	kg		
Normal value for the terrestrial co	mpartment			0,6	mg/	kg		
Health - Derived no-effect I	evel - DNEL / I	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
				Systemic		Systemic		

VND

181 mg/m3

62 mg/kg

608 mg/m3

VND

VND

302 mg/m3

103 mg/kg

VND VND

365 mg/m3

VND

Inhalation

Skin

CYCLOHEXANONE Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observation	s	
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	40,8	10	81,6	20	SKIN		
TLV	CZE	40	9,8	80	196	SKIN		
AGW	DEU	80	20	80	20	SKIN		
TLV	DNK	41	10			SKIN	E	
VLA	ESP	41	10	82	20	SKIN		
VLEP	FRA	40,8	10	81,6	20			
VLEP	ITA	40,8	10	81,6	20	SKIN		
TGG	NLD			50		SKIN		
VLE	PRT	40,8	10	81,6	20	SKIN		
NDS/NDSCh	POL	40		80		SKIN		
TLV	ROU	40,8	10	81,6	20	SKIN		
NGV/KGV	SWE	41	10	81	20	SKIN		

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ESD	TUR	40,8	10	81,6	20	SKIN		
WEL	GBR	41	10	82	20	SKIN		
OEL	EU	40,8	10	81,6	20	SKIN		
TLV-ACGIH		80	20	201	50	SKIN		
Predicted no-effect concen	tration DNEC		20	201		JKIN		
				0.4		w/l		
Normal value in fresh water				0,1	mç			
Normal value in marine wa				0,01	mç			
Normal value for fresh water				0,512		g/kg		
Normal value for marine wa				0,0512	mç	g/kg		
Normal value for water, into	ermittent release			0,329	mg	g/l		
Normal value of STP micro	-			10	mç	g/l		
Normal value for the terres	trial compartment			0,0435	mç	g/kg		
Health - Derived no-ef	fect level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,5 mg/kg		Systemic		Systellill
Inhalation			VND	bw/d 10 mg/m3			VND	40 mg/m3
Skin			VND	1 mg/kg bw/d			VND	4 mg/kg bw/
Modified amorphous	silicon							
		TWA/8h		STEL/15min		Remarks		
Threshold Limit Value	1	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks Observa		
Threshold Limit Value	1		ppm		ppm			
	Country	mg/m3	ppm		ppm	Observa		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia	Country ITA ITA	mg/m3	ppm		ppm	Observa INHAL		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concen	Country ITA ITA oo tration - PNEC	mg/m3	ppm	mg/m3		Observa INHAL RESP		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concen Normal value in fresh water	Country ITA ITA ITA no tration - PNEC	mg/m3	ppm	mg/m3	mę	Observa INHAL RESP		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concen Normal value in fresh watel Normal value in marine watel	Country ITA ITA oo tration - PNEC r	mg/m3	ppm	0,0032 0,0032	mę mę	Observa INHAL RESP		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concent Normal value in fresh water Normal value in marine water Normal value for fresh water	Country ITA ITA ITA no tration - PNEC r ter er sediment	mg/m3	ppm	0,0032 0,0032 15,6	mę mę mę	Observa INHAL RESP g/l g/l g/l g/kg		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concent Normal value in fresh water Normal value in marine wat Normal value for fresh water Normal value for water, inter	Country ITA ITA ITA oo tration - PNEC r ter er sediment ermittent release	mg/m3	ppm	0,0032 0,0032 15,6 0,0032	mç mç mç	Observa INHAL RESP		
Threshold Limit Value Type VLEP VLEP VLEP Traduci da: Indonesia Predicted no-effect concent Normal value in fresh water Normal value for fresh water Normal value for water, inter Normal value of STP micro	Country ITA ITA ITA no tration - PNEC r ter er sediment ermittent release organisms	mg/m3	ppm	0,0032 0,0032 15,6 0,0032 35	mę mę mę	Observa INHAL RESP g/l g/l g/kg		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concen Normal value in fresh water Normal value in marine wat Normal value for fresh water Normal value for water, inte Normal value of STP micro Normal value for the terrest	Country ITA ITA ITA ITA ITA ITA ITA ITA	mg/m3 3 10	ppm	0,0032 0,0032 15,6 0,0032	mę mę mę	Observa INHAL RESP		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concent Normal value in fresh water Normal value for fresh water Normal value for water, inter Normal value of STP micro Normal value for the terresi Health - Derived no-effect	Country ITA ITA ITA ITA ITA ITA ITA ITA	mg/m3 3 10	ppm	0,0032 0,0032 15,6 0,0032 35	mę mę mę	Observa INHAL RESP g/l g/l g/kg		
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concent Normal value in fresh water Normal value in marine wat Normal value for fresh water Normal value for water, inter	Country ITA ITA ITA ITA no tration - PNEC r ter er sediment ermittent release organisms trial compartment fect level - DNEL / I Effects on	mg/m3 3 10	ppm Chronic local	0,0032 0,0032 15,6 0,0032 35 0,865	mç mç mç mç etfects on	Observa INHAL RESP g/I g/I g/kg g/I g/kg/d Acute		Chronic
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concent Normal value in fresh water Normal value for fresh water Normal value for water, inter Normal value of STP micro Normal value for the terresi Health - Derived no-effect	Country ITA ITA ITA ITA no tration - PNEC r ter er sediment ermittent release organisms trial compartment fect level - DNEL / I Effects on consumers	mg/m3 3 10		0,0032 0,0032 15,6 0,0032 35 0,865	mg mg mg mg mg	Observa INHAL RESP g/I g/I g/kg g/I g/kg/d	tions	Chronic
Threshold Limit Value Type VLEP VLEP Traduci da: Indonesia Predicted no-effect concen Normal value in fresh water Normal value in marine wat Normal value for fresh water Normal value for water, inter Normal value of STP micro Normal value for the terrest Health - Derived no-eff Route of exposure	Country ITA ITA ITA ITA no tration - PNEC r ter er sediment ermittent release organisms trial compartment fect level - DNEL / I Effects on consumers	mg/m3 3 10 DMEL Acute systemic		0,0032 0,0032 15,6 0,0032 35 0,865	mg mg mg mg mg	Observa INHAL RESP g/I g/I g/kg g/I g/kg/d Acute	tions	
Threshold Limit Value Type VLEP VLEP VLEP Traduci da: Indonesia Predicted no-effect concent Normal value in fresh water Normal value in marine water Normal value for fresh water Normal value for water, into Normal value of STP micro Normal value for the terrest Health - Derived no-effect Route of exposure Oral	Country ITA ITA ITA ITA no tration - PNEC r ter er sediment ermittent release organisms trial compartment fect level - DNEL / I Effects on consumers	mg/m3 3 10 DMEL Acute systemic		0,0032 0,0032 15,6 0,0032 35 0,865	mg mg mg mg mg	Observa INHAL RESP g/I g/I g/kg g/I g/kg/d Acute	tions	systemic
Threshold Limit Value Type VLEP VLEP VLEP Traduci da: Indonesia Predicted no-effect concen Normal value in fresh water Normal value in marine water Normal value for fresh water Normal value for water, inter Normal value of STP micro Normal value for the terrest Health - Derived no-effect Route of exposure Oral Inhalation	Country ITA ITA ITA ITA ITA ITA ITA IT	mg/m3 3 10 DMEL Acute systemic		0,0032 0,0032 15,6 0,0032 35 0,865 Chronic systemic 4,4 mg/m3	mg mg mg mg mg	Observa INHAL RESP g/I g/I g/kg g/I g/kg/d Acute	tions	17,8 mg/m3 25,5 mg/kg

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Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	4				INHAL	
MAK	DEU	4				INHAL	

MALEIC ANHYDRIDE Threshold Limit Value							
Type Country		TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	1					
TLV	CZE	1	0,245	2	0,49		
AGW	DEU	0,081	0,02	0,081 (C)	0,02 (C)		
MAK	DEU	0,081	0,02	0,081 (C)	0,02 (C)		C = 0,20 mg/m3
TLV	DNK	0,4	0,1				
VLA	ESP	0,4	0,1				
VLEP	FRA			1			
NDS/NDSCh	POL	0,5		1		SKIN	
TLV	ROU	1	0,25	3	0,75		
NGV/KGV	SWE	0,2	0,05	0,4	0,1		
WEL	GBR	1		3			
TLV-ACGIH		0,01	0,0025			INHAL	

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

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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
Appearance	liquid	
Colour	various	
Odour	typical of solvent	
Melting point / freezing point	not available	
Initial boiling point	> 140 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 26 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	not available	
Kinematic viscosity	not available	
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

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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.

DPnB

Do not put in contact with free oxygen

BUTANOL

Attacks various types of plastic materials.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

10.2. Chemical stability

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

DPnB

Stable product under recommended storage and use conditions

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 with: air.

DPnB

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Avoid oxygen infiltration	
ETHYLBENZENE	
Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.	
BUTANOL	
Reacts violently developing heat on contact with: aluminium,strong oxidising agents,strong reducing agents,hydroc with: air.	hloric acid.Forms explosive mixtures
CYCLOHEXANONE	
Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidisi with: air.	ng agents.Forms explosive mixtures
10.4. Conditions to avoid	
Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.	
DPnB	
Avoid oxygen infiltration; avoid heat, flames, sparks	
BUTANOL	
Avoid exposure to: sources of heat,naked flames.	
CYCLOHEXANONE	
Avoid exposure to: sources of heat,naked flames.	
10.5. Incompatible materials	
DPnB	
Avoid oxygen infiltration	
10.6. Hazardous decomposition products	
In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be rele	ased.
DPnB	
In the event of a fire, it can release carbon monoxide	
ETHYLBENZENE	

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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

Hydrocarbons, C10, aromatics, <1% naphtalene Specific target organ toxicity (STOT) - single exposure: NOAEC> 600 mg / kg Inhalation. Rat

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.

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

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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: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

LD50 (Dermal): 4350 mg/kg Rabbit

STA (Dermal): 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)

LD50 (Oral): 3523 mg/kg Rat LC50 (Inhalation vapours): 11,58 mg/l/4h Rat

DPnB

LD50 (Dermal): 5330 mg/kg Coniglio - Rabbit LD50 (Oral): 3700 mg/kg Ratto - Rat

ETHYLBENZENE

 LD50 (Dermal):
 15354 mg/kg Rabbit

 LD50 (Oral):
 3500 mg/kg Rat

 LC50 (Inhalation vapours):
 17,2 mg/l/4h Rat

Hydrocarbons, C10, aromatics, <1% naphtalene

LD50 (Dermal): > 2000 mg/kg Coniglio / Rabbit LD50 (Oral): 6318 mg/kg Ratto / Rat LC50 (Inhalation vapours): > 4688 mg/kg/4h Ratto / Rat

BUTANOL

 LD50 (Dermal):
 3400 mg/kg Rabbit

 LD50 (Oral):
 2290 mg/kg Rat

STA (Oral): 500 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)

LC50 (Inhalation vapours): 17,76 mg/l/4h Rat

2-ETHOSSI-1-METHYL ETHYL ACETATE

 LD50 (Dermal):
 13,42 ml/Kg Coniglio / Rabbit

 LD50 (Oral):
 > 5000 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 6,99 mg/l/4h Rat

CYCLOHEXANONE

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LD50 (Dermal): 1100 mg/kg 794 - 3160 / Coniglio / Rabbit

LD50 (Oral): 1535 mg/kg Ratto / Rat LC50 (Inhalation vapours): 11 mg/l/4h Ratto / Rat (4h)

Modified amorphous silicon

LD50 (Oral): > 5000 mg/kg Ratto / Rat

MALEIC ANHYDRIDE

 LD50 (Dermal):
 610 mg/kg Rat

 LD50 (Oral):
 400 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains:

MALEIC ANHYDRIDE Essential oil sweet orange

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

VR, 65 NR, 70 TR,

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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 (EPÁ) - (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

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

DPnB

LC50 - for Fish 841 mg/l/96h poecilia reticulata EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna

Hydrocarbons, C10, aromatics, <1%

naphtalene

LC50 - for Fish > 2 mg/l/96h

EC50 - for Crustacea > 3 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1 mg/l/72h

2-ETHOSSI-1-METHYL ETHYL ACETATE

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LC50 - for Fish 140 mg/l/48h Oncorhynchus mykiss (test 48h)

EC50 - for Crustacea 110 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Scenedesmus subspicatus

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)

BUTANOL

LC50 - for Fish 1376 mg/l/96h Pimephales promelas EC50 - for Crustacea 1328 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 225 mg/l/96h 96h - Selenastrum capricornutum

CYCLOHEXANONE

LC50 - for Fish 527 mg/l/96h 527 - 732 / Pimephales promelas

EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Scenedesmus subspicatus

Modified amorphous silicon

LC50 - for Fish > 10000 mg/l/96h Brachydanio rerio OECD 203
EC50 - for Crustacea > 10000 mg/l/24h Daphnia Magna OCSE 202 - 24 h

12.2. Persistence and degradability

DPnB

Entirely degradable

Hydrocarbons, C10, aromatics, <1%

naphtalene

Solubility in water immiscibile in H2O mg/l

Rapidly degradable

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Rapidly degradable

2-ETHOSSI-1-METHYL ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

Activated sludge - 89%/15 d - 100%/28 d

ETHYLBENZENE

Solubility in water 200 mg/l ECHA 2018/05/18

Rapidly degradable

BUTANOL

Solubility in water 78 mg/l

Rapidly degradable

CYCLOHEXANONE

Solubility in water 86 mg/l

Rapidly degradable

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MALEIC ANHYDRIDE Solubility in water > 10000 mg/l Entirely degradable Modified amorphous silicon Solubility in water > 1 mg/l 12.3. Bioaccumulative potential DPnB 1,523 Partition coefficient: n-octanol/water XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water 3,12 **BCF** 25,9 2-ETHOSSI-1-METHYL ETHYL ACETATE Partition coefficient: n-octanol/water 0,76 BCF 3,162 ETHYLBENZENE Partition coefficient: n-octanol/water 3,6 **BUTANOL** Partition coefficient: n-octanol/water **BCF** 3,16 **CYCLOHEXANONE** Partition coefficient: n-octanol/water 0,86 MALEIC ANHYDRIDE Partition coefficient: n-octanol/water -2,78 12.4. Mobility in soil XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water 2,73 2-ETHOSSI-1-METHYL ETHYL ACETATE Partition coefficient: soil/water 1 **BUTANOL** Partition coefficient: soil/water 0,388 CYCLOHEXANONE Partition coefficient: soil/water 1,18

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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.

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

ADR / RID, IMDG, IATA: 1210

14.2. UN proper shipping name

ADR / RID: PRINTING INK or PRINTING INK RELATED MATERIAL IMDG: PRINTING INK or PRINTING INK RELATED MATERIAL IATA: PRINTING INK or PRINTING INK RELATED MATERIAL

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

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ADR / RID, IMDG, IATA:

Ш

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA:

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Tunnel

restriction Quantities: 5 code: (D/E)

Special provision: 163, 367

IMDG: EMS: F-E, S-D Limited Quantities: 5

Special provision:

Cargo:

Pass:

Maximum quantity: 220

instructions: 366

Maximum quantity: 60 L Packaging instructions:

Packaging

355

A3, A72,

A192

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

<u>Product</u>

IATA:

3 - 40 Point

Contained substance

Point 75 CYCLOHEXANONE REACH Reg.:

01-2119453616-35-xxxx

Point 75 XYLENE (MIXTURE OF ISOMERS)

REACH Reg.: 01-2119488216-32-

Point 75 BUTANOL REACH Reg.: 01-

2119484630-38

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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 ≥ 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

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

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

Skin Corr. 1B Skin corrosion, category 1B

Eye Dam. 1 Serious eye damage, category 1

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

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Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1A Skin sensitization, category 1A

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

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.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

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

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
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.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH071 Corrosive to the respiratory tract.

LEGEND:

- 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 as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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

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- 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 as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EŬ) 2019/Ì148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP) 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 quarantee 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.