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

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Replaced revision:4 (Dated: 11/01/2021)

# **Safety Data Sheet**

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

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

#### 1.1. Product identifier

Product name PLT 47: 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR, 65 NR, 70 TR, UFI: 2H60-D0W8-P00N-XNA8

#### 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

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

**ITALIA** 

Tel. +39 0331 219516 Fax +39 0331 216161

e-mail address of the competent person responsible for the Safety Data Sheet Supplier:

info@comec-italia.it Edgardo Baggini

#### 1.4. Emergency telephone number

For urgent inquiries refer to CENTRO ANTIVELENI OSPEDALE NIGUARDA MILANO Tel. 02/66101029 (24/24h) - CENTRO ANTIVELENI POLICLINICO A.GEMELL ROMA Tel. 06/3054343 (24/24h) -

#### **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 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:

category 3

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.
Serious eye damage, category 1	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.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity,	H412	Harmful to aquatic life with long lasting effects.

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#### 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. **H317** May cause an allergic skin reaction.

**H412** Harmful to aquatic life with long lasting effects.

#### 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)

BUTANOL

CYCLOHEXANONE
MALEIC ANHYDRIDE
Essential oil sweet orange

#### 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:

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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 ≤ 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 ≤ x < 4,5	Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066
EC 918-811-1	1 = X + 1,0	7.6p. 16.2. 11166 1, 6161 62 611666, 7.quale 6116116 211111, 2611666
CAS -		
REACH Reg. 01-2119463583-34-		
XXXX BUTANOL		
INDEX 603-004-00-6	4 ≤ x < 4.5	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 ≤ x < 4	Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4
	3,5 ≤ X < 4	H332, Eye Dam. 1 H318, Skin Irrit. 2 H315
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		
REACH Reg. 01-2119453616-35-		
2-ETHOSSI-1-METHYL ETHYL		
<b>ACETATE</b>   INDEX 603-177-00-8	3,5 ≤ x < 4	Flam. Lig. 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,
	0,14 = X × 0,10	Aquatic Chronic 1 H410 M=1
EC -		
CAS 8008-57-9		
MALEIC ANHYDRIDE	0.004	And The Allege STOT DE Allege St. Co., 12 12 15
INDEX 607-096-00-9	$0.001 \le x < 0.01$	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

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EC 203-571-6 CAS 108-31-6

Skin Sens. 1A H317: ≥ 0,001%

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### 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.

#### 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**

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#### 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)

Information not available

#### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

HAPEJBA № 13 OT 30 JEKEMBPU 2003 Г. 3A 3AIIIUTA HA PABOTEIIIUTE OT PUCKOBE **BGR** България

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

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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 Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019 DNK Danmark **FSP** España Límites de exposición profesional para agentes químicos en España 2021 Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS FRA France Decreto Legislativo 9 Aprile 2008. n.81 ITA Italia 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 POI Polska Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych steżeń i nateżeń czynników szkodliwych dla zdrowia w środowisku pracy ROU România Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006 SWE Sverige . Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS TUR Türkiye Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733 United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020) GBR Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; FU OFL FU

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** 

Туре	Country	TWA/8h		STEL/15min		Remarks / Observatior		
		mg/m3	ppm	mg/m3	ppm	Observation	is	
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	Е	
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		
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 conc	entration - PNEC							
Normal value in fresh wa	ter			0,327	n	ng/l		
Normal value in marine v	vater			0,327	n	ng/l		
Normal value for fresh w	ater sediment			12,46	n	ng/kg		
Normal value for marine	water sediment			12,46	n	ng/kg		
Normal value for water, i	ntermittent release			0,327	n	ng/l		

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Normal value of STP microorgan	nisms			6,58	mg	g/l		
Normal value for the terrestrial co	ompartment			2,31	mg	g/kg		
Health - Derived no-effect	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			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
ETHYLBENZENE								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks /		
,		mg/m3	ppm	mg/m3	ppm	Observation	ons	
TLV	BGR	435	ppiii	545	ррш	SKIN		
TLV	CZE	200	45,4	500	113,5	SKIN		
AGW	DEU	88	20	176	40	SKIN		
	DEU				40			
MAK TLV		88	20	176	40	SKIN		
	DNK	217	50	004	000		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					
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				0,1	mç	g/I ECHA 2018		
Normal value in marine water				0,01	mç	g/I ECHA 2018		
Normal value for fresh water sed	liment			13,7	mç	g/kg ECHA 2018		
Normal value for marine water se	ediment			1,37	mç	g/kg ECHA 2018		
Normal value for water, intermitte	ent release			0,1	mg	g/I ECHA 2018		
Normal value of STP microorgan	nisms			9,6	mg	g/I ECHA 2018		
Normal value for the food chain (	(secondary poison	ing)		20	mg	g/kg ECHA 2018		
Normal value for the terrestrial co	ompartment			2,68	mç	g/kg ECHA 2018		
Hydrocarbons, C10, aroma	ntics. <1% nanh	ntalene						
Health - Derived no-effect	level - DNEL / D							
	Effects on consumers				Effects on workers			

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		systemic	systemic	systemic
Oral	VND	7,5 mg/kg/d		
Inhalation	VND	32 mg/m3	VND	151 mg/m3
Skin	VND	7.5 ma/ka/d	VND	12.5 ma/ka/d

ΓLV	Country	TWA/8h mg/m3		STEL/15min		Remarks	/	
TLV	BGR	ma/m2				Observat	ions	
	BGR	mg/ms	ppm	mg/m3	ppm			
TLV AGW	50.1	100		150				
A C\A/	CZE	300	97,5	600	195			
AGVV	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 concentration	ı - PNEC							
Normal value in fresh water				0,082	mg	ı/I		
Normal value in marine water				0,0082	mg	ı/I		
Normal value for fresh water sedi	iment			0,178	mg	ı/kg		
Normal value for marine water se	ediment			0,0178	mg	ı/kg		
Normal value for water, intermitte	ent release			2,25	mg	ı/I		
Normal value of STP microorgan	isms			2476	mg	ı/I		
Normal value for the terrestrial co	ompartment			0,015	mg	ı/kg		
Health - Derived no-effect l		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			VND	3125 mg/kg				

Туре	Country	TWA/8h		STEL/15min		Remarks / Observatior	าร
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	120	20	240	40	SKIN	14
MAK	DEU	120	20	240	40	SKIN	Hinweis
Predicted no-effect conc	entration - PNEC						

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Normal value in marine water				0,8	<b></b>	a/l		
Normal value in marine water	imant			,		g/l		
Normal value for fresh water sed				8,2		g/kg		
Normal value for marine water se				0,6		g/kg 		
Normal value for water, intermitte				2		g/l		
Normal value of STP microorgan				62,5		g/kg		
Normal value for the food chain (		ning)		117	m	g/kg		
Normal value for the terrestrial co	ompartment			0,6	m	g/kg		
Health - Derived no-effect I	evel - DNEL / [ Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral			VND	systemic 13,1 mg/kg		systemic		systemic
Inhalation	VND	365 mg/m3	VND	181 mg/m3	VND	608 mg/m3	VND	302 mg/m3
Skin	VIVE	ooo mg/mo	VND	62 mg/kg	VIID	ooo mg/mo	VND	103 mg/kg
CYCLOHEXANONE Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observation		
		mg/m3	ppm	mg/m3	ppm	CDOOTVALI	3110	
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		
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 concentration	- PNFC					51011		
Normal value in fresh water	. INLO			0,1	m	g/l		
Normal value in marine water				0,01	m	g/I		
Normal value for fresh water sed	iment			0,512		g/kg		
Normal value for marine water se	ediment			0,0512		g/kg		
Normal value for water, intermitted	ent release			0,329	m	g/l		
,								
Normal value of STP microorgan	isms			10	m	g/l		

Health - Derived no-effect level - DNEL / DMEL

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	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				1,5 mg/kg bw/d				
Inhalation			VND	10 mg/m3			VND	40 mg/m3
Skin			VND	1 mg/kg bw/d			VND	4 mg/kg bw/d
Modified amorphous silice Threshold Limit Value	on							
Type	Country	TWA/8h		STEL/15min		Remark Observa		
		mg/m3	ppm	mg/m3	ppm			
VLEP	ITA	3				INHAL		
VLEP	ITA	10				RESP		
Traduci da: Indonesiano								
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,0032	mg	g/l		
Normal value in marine water				0,0032	mç	g/l		
Normal value for fresh water se	diment			15,6	mç	g/kg		
Normal value for water, intermittent release				0,0032	mç	g/l		
Normal value of STP microorganisms				35	mg	g/l		
Normal value for the terrestrial of	compartment			0,865	mg	g/kg/d		
Health - Derived no-effect		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
HYDROM HYDROPHONE Threshold Limit Value	SILICATE							
Type	Country	TWA/8h		STEL/15min		Remark Observa		
		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		Remark	e l	
туре	Country	TVVAVOIT		GTEL/TOITIN		Observa		

Туре	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

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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

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.

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#### **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

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.

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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 mixture with: air.
DPnB
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,hydrochloric acid.Forms explosive mixtures with: air.

#### CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures

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with: air.

#### 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 released.

DPnB

In the event of a fire, it can release carbon monoxide

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

Hydrocarbons, C10, aromatics, <1% naphtalene

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

XYLENE (MIXTURE OF ISOMERS)

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LD50 (Dermal): 4350 mg/kg Rabbit

1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Dermal):

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

3523 mg/kg Rat LD50 (Oral): 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 3500 mg/kg Rat LD50 (Oral): 17,2 mg/l/4h Rat LC50 (Inhalation vapours):

Hydrocarbons, C10, aromatics, <1% naphtalene

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

BUTANOL

LD50 (Dermal): 3400 mg/kg Rabbit LD50 (Oral): 2290 mg/kg Rat

500 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Oral):

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

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

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

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

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

Modified amorphous silicon

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

MALEIC ANHYDRIDE

LD50 (Dermal): 610 mg/kg Rat 400 mg/kg Rat LD50 (Oral):

SKIN CORROSION / IRRITATION

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Causes skin irritation	
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye damage	
RESPIRATORY OR SKIN SENSITISATION	
Sensitising for the skin	
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 (I. The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcino	ARC). genic potential".
ETHYLBENZENE Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IA Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (I	
REPRODUCTIVE TOXICITY	
Does not meet the classification criteria for this hazard class	
STOT - SINGLE EXPOSURE	
May cause respiratory irritation	

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#### 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

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

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

2-ETHOSSI-1-METHYL ETHYL ACETATE

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

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**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

MALEÍC ANHYDRIDE

Solubility in water > 10000 mg/l

Entirely degradable

Modified amorphous silicon

Solubility in water > 1 mg/l

12.3. Bioaccumulative potential

DPnB

Partition coefficient: n-octanol/water 1,523

XYLENE (MIXTURE OF ISOMERS)

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

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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 1
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

#### 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**

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#### 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: Label: 3 Class: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



#### 14.4. Packing group

Ш ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Tunnel Quantities: 5

Special provision: 163, 367

IMDG: EMS: F-E, S-D Limited restriction

code: (D/E)

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Quantities: 5

Maximum quantity: 220

instructions: 366

Maximum quantity: 60 L Packaging

Packaging

instructions: 355

Pass.:

Special provision:

Cargo:

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

75 Point

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:

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#### 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

Skin Sens. 1Skin sensitization, category 1Skin Sens. 1ASkin 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.

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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.

FUH066 Repeated exposure may cause skin dryness or cracking.

FUH071 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
- PNFC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative 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
- 7. 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 (EU) 2019/1148

# Revision nr. 5

Dated 08/02/2023

Printed on 08/02/2023

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Replaced revision:4 (Dated: 11/01/2021)

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

- 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 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 / 10 / 11 / 12 / 14 / 15 / 16.