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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 15: 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR, 65 NR, 70 TR, UFI: V9A2-30MC-900R-N4PP

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:

razara oracomoaron ana marcanom		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin 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.

category 3

2.2. Label elements

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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. H318 Causes serious eye damage. H315 Causes skin irritation.

May cause an allergic skin reaction. H317

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,

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

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.

P261 Avoid breathing dust, gas or vapours.

Contains: CYCLOHEXANONE

MALEIC ANHYDRIDE

BUTANOL

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)

Acrylate resin

INDEX $25.5 \le x < 27$ Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC

CAS -

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CYCLOHEXANONE

INDEX 606-010-00-7 $21 \le x < 22.5$

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 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-

XXXX

4-HYDROXY-4-METHYLPENTAN-

2-ONE

INDEX 603-016-00-1 $8,5 \le x < 10$

Flam. Liq. 3 H226, Eye Irrit. 2 H319

EC 204-626-7 CAS 123-42-2

REACH Reg. 01-2119473975-21xxxx

21xxxx Hydrocarbone

Hydrocarbons, C10, aromatics,

<1% naphtalene

INDEX - $7 \le x < 8$ Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066

EC 918-811-1

CAS -

REACH Reg. 01-2119463583-34-

XXXX

2-METHOXY-1-METHYLETHYL

ACETATE

INDEX 607-195-00-7 $6 \le x < 7$ Flam. Liq. 3 H226, STOT SE 3 H336

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

REACH Reg. 01-2119475791-29-

XXXX

BUTANOL

INDEX 603-004-00-6 $2 \le x < 2.5$ 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

AROMATIC HYDROCARBONS, C9

INDEX - $0.8 \le x < 0.9$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI

to the CLP Regulation: P

EC 918-668-5

CAS -

REACH Reg. 01-2119455851-35-

YYYY

MALEIC ANHYDRIDE

INDEX 607-096-00-9 0,001 ≤ 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

EC 203-571-6 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

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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

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

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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ,
		СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари
	•	2020r.)
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
	G	químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à
		exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie
	. 5.5	

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w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w

środowisku pracy

Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea

și completarea hotărârii guvernului nr. 1.093/2006

Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1) Sverige

Türkiye United Kingdom Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733 EH40/2005 Workplace exposure limits (Fourth Edition 2020) TUR GBR

Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EÚ) 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**

ROU

SWE

România

OEL EU

Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm	Observat	IOTIS	
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 conce	entration - PNEC							
Normal value in fresh wat	er			0,1	mg/	Ί		
Normal value in marine w	ater			0,01	mg/	Ί		
Normal value for fresh wa	ter sediment			0,512	mg/	kg		
Normal value for marine v	water sediment			0,0512	mg/	kg		
Normal value for water, in	termittent release			0,329	mg/	Ί		
Normal value of STP micr	roorganisms			10	mg/	Ί		
Normal value for the terre	strial compartment			0,0435	mg/	'kg		
Health - Derived no-e	effect 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 bw/d				
Inhalation			VND	10 mg/m3			VND	40 mg/m3
Skin			VND	1 mg/kg bw/d			VND	4 mg/kg b

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Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm	Observa	lions	
TLV	CZE	200	41,4	300	62,1			
AGW	DEU	96	20	192	40	SKIN		
MAK	DEU	96	20	192	40	SKIN		
TLV	DNK	240	50					
VLA	ESP	241	50					
VLEP	FRA	240	50					
TGG	NLD	120				SKIN		
NDS/NDSCh	POL	240						
TLV	ROU	150	32	250	53			
NGV/KGV	SWE	120	25	240 (C)	50 (C)			
WEL	GBR	241	50	362	75			
TLV-ACGIH		238	50					
Predicted no-effect concer	ntration - PNEC							
Normal value in fresh water	er			2	m	g/l		
Normal value in marine wa	ater			0,2	m	g/l		
Normal value for fresh wat	ter sediment			9,06	m	g/kg		
Normal value for marine w	ater sediment			0,91	m	g/kg		
Normal value for water, in	termittent release			1	m	g/l		
Normal value of STP micro	oorganisms			82	m	g/l		
Normal value for the terres	strial compartment			0,63	m	g/kg		
Health - Derived no-e	ffect level - DNEL / 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				3,4 mg/kg				
Inhalation				11,8 mg/m3				66,4 mg/m

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	35	6	70	12		11
NGV/KGV	SWE	80	15	170 (C)	30 (C)	SKIN	
Predicted no-effect con-	centration - PNEC						
Normal value in fresh w	ater			1,98	m	g/l	
Normal value in marine	water			0,198	m	g/l	
Normal value for fresh v	vater sediment			7,32	m	g/kg/d	
Normal value for marine	water sediment			0,732	m	g/kg/d	

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Normal value of STP microorganisms	500	mg/l	
Normal value for the food chain (secondary poisoning)	444	mg/kg	
Normal value for the terrestrial compartment	0,34	mg/kg/d	

Health - Derived no-ef	fect level - DNEL / D 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				50 mg/kg bw/d				•
Inhalation			18 mg/m3	37 mg/m3			30 mg/m3	61 mg/m3
Skin				25 mg/kg bw/d				83 mg/kg bw/d

Hydrocarbons, C10, aron	natics, <1% naph	talene							
Health - Derived no-effect level - DNEL / DMEL									
	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	7,5 mg/kg/d					
Inhalation			VND	32 mg/m3			VND	151 mg/m3	
Skin			VND	7,5 mg/kg/d			VND	12,5 mg/kg/d	

Туре	Country	TWA/8h		STEL/15min		Remarks / Observation	าร	
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	275	50	550	100	SKIN		
TLV	CZE	270	49,14	550	100,1	SKIN		
AGW	DEU	270	50	270	50			
MAK	DEU	270	50	270	50			
TLV	DNK	275	50			SKIN	Е	
VLA	ESP	275	50	550	100	SKIN		
VLEP	FRA	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		
TGG	NLD	550						
VLE	PRT	275	50	550	100	SKIN		
NDS/NDSCh	POL	260		520		SKIN		
TLV	ROU	275	50	550	100	SKIN		
NGV/KGV	SWE	275	50	550	100	SKIN		
ESD	TUR	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concentrati	on - PNEC							
Normal value in fresh water				0,635	m	g/l		
Normal value in marine water				0,0635	m	g/l		
Normal value for fresh water se	ediment			3,29	m	g/kg		

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VR, 65 NR, 70 TR,

Normal value for marine water sediment	0,329	mg/l	
Normal value for water, intermittent release	6,35	mg/l	
Normal value of STP microorganisms	100	mg/l	
Normal value for the terrestrial compartment	0,29	mg/kg	

Health - Derived no-ef	fect level - DNEL / [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	1,67 mg/kg		-		
Inhalation			33 mg/m3	33 mg/m3	550 mg/m3		VND	275 mg/m3
Skin			VND	54,8 mg/kg			VND	153,5 mg/kg

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 conc	entration - PNEC						
Normal value in fresh wa	iter			0,082	n	ng/l	
Normal value in marine v	vater			0,0082	n	ng/l	
Normal value for fresh w		0,178	n	ng/kg			
Normal value for marine		0,0178	n	ng/kg			
Normal value for water, i	ntermittent release			2,25	n	ng/l	
Normal value of STP mid	croorganisms			2476	n	ng/l	
Normal value for the terr	estrial compartment			0,015	n	ng/kg	

Health - Derived no-eff	fect level - DNEL / D	DMEL						
		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	3125 mg/kg				
Inhalation			55 ma/m3	VND			310 ma/m3	VND

AROMATIC HYDROCARBONS, C9

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VR, 65 NR, 70 TR,

hreshold Limit Value								
ype	Country	TWA/8h		STEL/15min		Rema Obsei	rks / rvations	
		mg/m3	ppm	mg/m3	ppm			
/LEP	ITA	100	20					etilbenzene
DEL	EU	100	20					etilbenzene
TLV-ACGIH			25				1,2,3 trim	etilbenzene
lealth - Derived no-effect	t level - DNEL / I Effects on consumers	OMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Dral			VND	11 mg/kg		Systemic		11 mg/kg bw/d
nhalation			VND	32 mg/m3			VND	150 mg/m3
Skin			VND	11 mg/kg			VND	25 mg/kg
Traduci da: Indonesiano	DUES							
Predicted no-effect concentration	on - PNEC			0.0000		//		
Normal value in fresh water				0,0032	m(
Normal value in marine water				0,0032	mç			
Normal value for fresh water se				15,6		g/kg		
Normal value for water, intermi				0,0032	mç	g/l		
Normal value of STP microorga				35	mį	g/l		
Normal value for the terrestrial	compartment			0,865	mç	g/kg/d		
Health - Derived no-effect	t level - DNEL / [OMEL						
	Effects on				Effects on			
	Effects on consumers				Effects on workers			
		Acute systemic	Chronic local	Chronic systemic		Acute systemic	Chronic local	Chronic systemic
Route of exposure	consumers	Acute systemic 1,3 mg/kg bw/d	Chronic local		workers		Chronic local	
Route of exposure	consumers		Chronic local		workers		Chronic local	
Route of exposure Oral Inhalation	consumers		Chronic local	systemic	workers		Chronic local	systemic
Route of exposure Oral Inhalation Skin HYDROM HYDROPHONE	consumers Acute local		Chronic local	systemic 4,4 mg/m3 13 mg/kg	workers		Chronic local	17,8 mg/m3 25,5 mg/kg
Route of exposure Dral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value	consumers Acute local		Chronic local	systemic 4,4 mg/m3 13 mg/kg	workers	systemic	ırks /	17,8 mg/m3 25,5 mg/kg
Route of exposure Oral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value	consumers Acute local SILICATE	1,3 mg/kg bw/d TWA/8h		systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min	workers Acute local	systemic		17,8 mg/m3 25,5 mg/kg
Route of exposure Dral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type	consumers Acute local SILICATE Country	1,3 mg/kg bw/d TWA/8h mg/m3	Chronic local	4,4 mg/m3 13 mg/kg bw/d	workers	Rema Obser	irks / vations	17,8 mg/m3 25,5 mg/kg
Route of exposure Oral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type AGW	consumers Acute local SILICATE	1,3 mg/kg bw/d TWA/8h		systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min	workers Acute local	systemic	rks / rvations	17,8 mg/m3 25,5 mg/kg
Route of exposure Dral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type AGW	Consumers Acute local SILICATE Country DEU	TWA/8h mg/m3		systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min	workers Acute local	Rema Obsel	rks / rvations	17,8 mg/m3 25,5 mg/kg
Route of exposure Dral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type AGW MAK Phthalic anhydride with le Threshold Limit Value	Consumers Acute local SILICATE Country DEU DEU	TWA/8h mg/m3 4 4 of maleic anhydri	ppm	4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3	workers Acute local	Rema Obsel	rks / rvations	17,8 mg/m3 25,5 mg/kg
Route of exposure Dral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type AGW MAK Phthalic anhydride with le Threshold Limit Value	Consumers Acute local SILICATE Country DEU DEU	TWA/8h mg/m3 4	ppm	systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min	workers Acute local	Rema Obser INHAI	rks / rvations	17,8 mg/m3 25,5 mg/kg
Route of exposure Dral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type AGW MAK Phthalic anhydride with le Threshold Limit Value	Consumers Acute local SILICATE Country DEU DEU DEU ess than 0,05% of	TWA/8h mg/m3 4 4 of maleic anhydri	ppm	4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3	workers Acute local	Rema Obser INHAI	irks / vations	17,8 mg/m3 25,5 mg/kg
Route of exposure Dral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type AGW MAK Phthalic anhydride with lefthreshold Limit Value Type	Consumers Acute local SILICATE Country DEU DEU DEU ess than 0,05% of	TWA/8h mg/m3 4 4 of maleic anhydri	ppm	systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3	workers Acute local	Rema Obser INHAI	rks / rvations	17,8 mg/m3 25,5 mg/kg
Route of exposure Oral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type AGW MAK Phthalic anhydride with le Threshold Limit Value Type TLV-ACGIH MALEIC ANHYDRIDE	Consumers Acute local SILICATE Country DEU DEU DEU ess than 0,05% of	TWA/8h mg/m3 4 4 of maleic anhydri TWA/8h mg/m3	ppm	systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3	workers Acute local	Rema Obser INHAI	rks / rvations	17,8 mg/m3 25,5 mg/kg
Route of exposure Oral Inhalation Skin HYDROM HYDROPHONE Threshold Limit Value Type AGW MAK Phthalic anhydride with le Threshold Limit Value Type TLV-ACGIH	Consumers Acute local SILICATE Country DEU DEU DEU ess than 0,05% of	TWA/8h mg/m3 4 4 of maleic anhydri TWA/8h mg/m3	ppm	systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3	workers Acute local	Rema Obser INHAI	rks / rvations L L arks / rvations	17,8 mg/m3 25,5 mg/kg

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VR, 65 NR, 70 TR,

		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.

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.

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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.

Information

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
Appearance	liquid
Colour	various
Odour	ketonic
Melting point / freezing point	not available
Initial boiling point	> 125 °C
Flammability	not available
Lower explosive limit	not available
Upper explosive limit	not available
Flash point	60 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
рН	not available
Kinematic viscosity	not available
Solubility	not available
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	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

VOC (Directive 2010/75/EU) 55,50 % VOC (volatile carbon) 38,03 %

SECTION 10. Stability and reactivity

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10.1. Reactivity

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

CYCLOHEXANONE

Attacks various types of plastic materials.

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

Decomposes at temperatures above 90°C/194°F.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

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

BUTANOL

Attacks various types of plastic materials.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

CYCLOHEXANONE

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

Risk of explosion on contact with: air,sources of heat. May react dangerously with: alkaline metals, amines, oxidising agents, acids.

DIETHYLENE GLYCOL MONOETHYL ETHER

Forms explosive mixtures with: air.May react dangerously with: oxidising agents, aluminium.

2-METHOXY-1-METHYLETHYL ACETATE

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

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PLT 15: 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR, 65 NR, 70 TR,

BUTANOL

Reacts violently developing heat on contact with: aluminium,strong oxidising agents,strong reducing agents,hydrochloric acid.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Avoid exposure to: light, sources of heat, naked flames.

BUTANOL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

10.6. Hazardous decomposition products

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

SECTION 11. Toxicological information

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

2-METHOXY-1-METHYLETHYL ACETATE

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

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Information on likely routes of exposure

4-HYDROXY-4-METHYLPENTAN-2-ONE WORKERS: inhalation; contact with the skin.

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

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

2-METHOXY-1-METHYLETHYL ACETATE

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

Interactive effects

Information not available

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

CYCLOHEXANONE

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)

4-HYDROXY-4-METHYLPENTAN-2-ONE

 LD50 (Dermal):
 > 1875 mg/kg Ratto / Rat

 LD50 (Oral):
 3002 mg/kg Rat

 LC50 (Inhalation vapours):
 > 7,6 mg/l Ratto / Rat

DIETHYLENE GLYCOL MONOETHYL ETHER

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LD50 (Dermal): LD50 (Oral):

LC50 (Inhalation vapours):

9143 mg/kg Coniglio / Rabbit 6031 mg/kg Topo / Mouse 0,02 mg/l/8h Ratto / Rat

Hydrocarbons, C10, aromatics, <1% naphtalene

LD50 (Dermal): LD50 (Oral):

LC50 (Inhalation vapours):

> 2000 mg/kg Coniglio / Rabbit 6318 mg/kg Ratto / Rat > 4688 mg/kg/4h Ratto / Rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): LD50 (Oral):

LC50 (Inhalation vapours):

> 5000 mg/kg Coniglio / Rabbit 8500 mg/kg Ratto / Rat 4345 ppm/6h Ratto / Rat

BUTANOL

LD50 (Dermal): LD50 (Oral):

STA (Oral):

3400 mg/kg Rabbit 2290 mg/kg Rat 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)

17,76 mg/l/4h Rat

AROMATIC HYDROCARBONS, C9

LD50 (Dermal): LD50 (Oral):

LC50 (Inhalation vapours):

LC50 (Inhalation vapours):

> 3160 mg/kg Ratto / Rat 3492 mg/kg Ratto / Rat > 6193 mg/l/4h Ratto / Rat

MALEIC ANHYDRIDE

LD50 (Dermal): LD50 (Oral):

610 mg/kg Rat 400 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

VR, 65 NR, 70 TR,

PLT 15: 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40

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Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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**

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

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PLT 15: 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR. 65 NR. 70 TR.

AROMATIC HYDROCARBONS, C9

LC50 - for Fish > 9,2 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea > 3,2 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 2,9 mg/l/72h Pseudokirchneriella subcapitata

DIETHYLENE GLYCOL MONOETHYL

ETHER

LC50 - for Fish 6010 mg/l/96h Pesce OECD 203

EC50 - for Crustacea 1982 mg/l/48h Daphnia magna OECD 202

2-METHOXY-1-METHYLETHYL ACETATE

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

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

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

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

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

LC50 - for Fish > 100 mg/l/96h Oryzias latipes EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants < 1000 mg/l/72h Pseudokirchneriella subcapitata

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

12.2. Persistence and degradability

Hydrocarbons, C10, aromatics, <1%

naphtalene

Solubility in water immiscibile in H2O mg/l

Rapidly degradable

AROMATIC HYDROCARBONS, C9

Rapidly degradable

DIÉTHYLENE GLYCOL MONOETHYL

ETHER

1000 g/l Completamente solubile Solubility in water

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable OECD GI 301F 83% 10 d

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PLT 15: 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR, 65 NR, 70 TR,

BUTANOL

Solubility in water 78 mg/l

Rapidly degradable

4-HYDROXY-4-METHYLPENTAN-2-ONE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable AFNOR T 90-312 70% 10 d CYCLOHEXANONE

Solubility in water 86 mg/l

Rapidly degradable MALEIC ANHYDRIDE

Solubility in water > 10000 mg/l

Entirely degradable

12.3. Bioaccumulative potential

DIETHYLENE GLYCOL MONOETHYL

ETHER

Partition coefficient: n-octanol/water -0,54 misurato

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2 BCF 100

BUTANOL

Partition coefficient: n-octanol/water 1
BCF 3,16

4-HYDROXY-4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water -0,09

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

MALEIC ANHYDRIDE

Partition coefficient: n-octanol/water -2,78

12.4. Mobility in soil

DIETHYLENE GLYCOL MONOETHYL

ETHER

Partition coefficient: soil/water 20 stimato

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

BUTANOL

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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

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



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IATA:

Class: 3

Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

Ш

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Limited Quantities: 5 Tunnel restriction code: (D/E)

Special provision: 163, 367

IMDG:

IATA:

EMS: F-E, S-D

Limited Quantities: 5

Maximum

quantity: 220

instructions: 366

Pass.:

Cargo:

Maximum quantity: 60 L

Packaging instructions:

Packaging

355

Special provision:

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>

Point 3 - 40

Contained substance

Point 75

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

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not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Flam. Liq. 3 Flammable liquid, category 3

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
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. 1A Skin sensitization, category 1A

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

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

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. 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.

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.

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
- · 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

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- 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 (EU) 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)
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- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
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- The Merck Index. 10th Edition
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- 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:

01 / 02 / 03 / 09 / 11 / 12 / 14 / 15 / 16.