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 UV: 110, 111, 112, 115, 117, 120, 121, 122, 124,130, 131, 132, 133, 134, 136, 140, 141, 142, 150, 151, 165, 165 HD,**

UFI : **09Y1-A08J-300D-YF3E**

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: **info@comec-italia.it**

Supplier: **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:

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, category 3	H412	Harmful to aquatic life with long lasting effects.

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.
H318	Causes serious eye damage.
H315	Causes skin 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.
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.
P261	Avoid breathing dust, gas or vapours.

Contains:

Dipropylene glycol diacrylate
CYCLOHEXANONE
1,6-HEXANEDIOL DIACRYLATE
2-Propenoic acid, 1,6-hexanediyl ester, polymer
2-Propenoic acid, reaction products with dipentaerythritol
2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester
Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA)
ACRYLIC ACID ESTER
Fatty acids, C18, unsaturated, dimers, products. Reaction with N, N-dimethyl-1, 3propanediamine and 1,3-propanediamine

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)
1,6-HEXANEDIOL DIACRYLATE		
INDEX 607-109-00-8	15 ≤ x < 16,5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: D
EC 235-921-9		
CAS 13048-33-4		
REACH Reg. 01-2119484737-22-xxxx		
ACRYLIC POLYMER		
INDEX	10,5 ≤ x < 12	
EC		
CAS -		
CYCLOHEXANONE		
INDEX 606-010-00-7	8,5 ≤ x < 10	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		
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC		
INDEX -	5 ≤ x < 6	Asp. Tox. 1 H304, EUH066, Classification note according to Annex VI to the CLP Regulation: P
EC 918-481-9		
CAS -		
REACH Reg. 01-2119457273-39-xxxx		
Acrylate resin		
INDEX	4,5 ≤ x < 5	Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC		
CAS -		
N-BUTYL ACETATE		
INDEX 607-025-00-1	4,5 ≤ x < 5	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC 204-658-1		
CAS 123-86-4		
REACH Reg. 01-2119485493-29-xxxx		
2-Propenoic acid, reaction products with dipentaerythritol		
INDEX -	4 ≤ x < 4,5	Eye Irrit. 2 H319, Skin Sens. 1A H317, Aquatic Chronic 3 H412
EC 800-838-4		
CAS 1384855-91-7		
REACH Reg. 01-2119980666-22-xxxx		
2-METHOXY-1-METHYLETHYL ACETATE		
INDEX 607-195-00-7	3,5 ≤ x < 4	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-603-9		

CAS 108-65-6

REACH Reg. 01-2119475791-29-xxxx

2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester

INDEX -	3,5 ≤ x < 4	Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC 282-810-6		
CAS 84434-11-7		
REACH Reg. 01-2119987994-10-0000		

Dipropylene glycol diacrylate

INDEX -	3 ≤ x < 3,5	Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC 260-754-3		
CAS 57472-68-1		
REACH Reg. 01-2119484629-21-xxxx		

2-Propenoic acid, 1,6-hexanediyl ester, polymer

INDEX	3 ≤ x < 3,5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC -		
CAS 67906-98-3		

2-hydroxy-2-Methylpropiophenone

INDEX -	2,5 ≤ x < 3	Acute Tox. 4 H302, Aquatic Chronic 3 H412
EC 231-272-0		LD50 Oral: 1694 mg/kg
CAS 7473-98-5		
REACH Reg. 01-2119472306-39-xxxx		

BUTANOL

INDEX 603-004-00-6	2,5 ≤ x < 3	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		

BENZOPHENONE

INDEX -	1 ≤ x < 1,5	STOT RE 2 H373, Aquatic Chronic 3 H412
EC 204-337-6		
CAS 119-61-9		
REACH Reg. 01-2119899704-20-xxxx		

(Phenyl) (hydroxycyclohexyl) ketone

INDEX -	1 ≤ x < 1,5	
EC 213-426-9		
CAS 947-19-3		
REACH Reg. 01-2119457404-40-xxxx		

AROMATIC HYDROCARBONS, C9

INDEX -	0,34 ≤ x < 0,36	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-xxxx		
Fatty acids, C18, unsaturated, dimers, products. Reaction with N, N-dimethyl-1, 3propanediamine and 1,3-propanediamine		
INDEX -	0,14 ≤ x < 0,16	Skin Sens. 1 H317
EC 605-296-0		
CAS 162627-17-0		
ACRYLIC ACID ESTER		
INDEX -	0,13 ≤ x < 0,15	Eye Irrit. 2 H319, Skin Sens. 1 H317
EC 500-114-5		
CAS 52408-84-1		
REACH Reg. 01-2119487948-12		
Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA)		
INDEX -	0,12 ≤ x < 0,14	Skin Sens. 1 H317
EC 500-130-2		
CAS 55818-57-0		
REACH Reg. 01-2119490020-53-xxxx		
METHYL METHACRYLATE		
INDEX 607-035-00-6	0,08 ≤ x < 0,1	Flam. Liq. 2 H225, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: D
EC 201-297-1		
CAS 80-62-6		
1-METHOXY-2-PROPANOL		
INDEX 603-064-00-3	0,07 ≤ x < 0,09	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-539-1		
CAS 107-98-2		
REACH Reg. 01-2119457435-35xxxx		
ACRYLIC ACID		
INDEX 607-061-00-8	0 ≤ x < 0,02	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1A H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: D
EC 201-177-9		STOT SE 3 H335: ≥ 1%
CAS 79-10-7		STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l
REACH Reg. 01-2119452449-31		
QUARTZ		
INDEX -	0 ≤ x < 0,02	STOT RE 2 H373
EC 238-878-4		
CAS 14808-60-7		

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

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.
UNSUITABLE EXTINGUISHING EQUIPMENT
Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

METHYL METHACRYLATE
Heat may cause the product to polymerise, which could lead to explosion.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

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

from the leakage site.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

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 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos

POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

1,6-HEXANEDIOL DIACRYLATE

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0015	mg/l
Normal value in marine water	0,00015	mg/l
Normal value for fresh water sediment	0,0137	mg/kg
Normal value for marine water sediment	0,00243	mg/kg
Normal value of STP microorganisms	2,7	mg/l
Normal value for the terrestrial compartment	0,00397	mg/kg

Health - Derived no-effect level - DNEL / 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	2,08 mg/kg/d			VND	2,77 mg/kg
Inhalation			VND	7,24 mg/m3			VND	24,48 mg/m3
Skin			VND	1,66 mg/kg/d				2,77 mg/kg bw/d

ACRYLIC POLYMER

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		10				INHAL
TLV-ACGIH		3				RESP

CYCLOHEXANONE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	40,8	10	81,6	20	SKIN	
TLV	CZE	40	9,8	80	196	SKIN	
AGW	DEU	80	20	80	20	SKIN	
TLV	DNK	41	10			SKIN	E
VLA	ESP	41	10	82	20	SKIN	
VLEP	FRA	40,8	10	81,6	20		
VLEP	ITA	40,8	10	81,6	20	SKIN	
TGG	NLD			50		SKIN	

VLE	PRT	40,8	10	81,6	20	SKIN
NDS/NDSCh	POL	40		80		SKIN
TLV	ROU	40,8	10	81,6	20	SKIN
NGV/KGV	SWE	41	10	81	20	SKIN
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 - PNEC		
Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	0,512	mg/kg
Normal value for marine water sediment	0,0512	mg/kg
Normal value for water, intermittent release	0,329	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,0435	mg/kg

Health - Derived no-effect level - DNEL / 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				1,5 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

CALCIUM CARBONATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	FRA	10				
NDS/NDSCh	POL	10				INHAL

Polymer based on vinyl compounds

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	2	1			

Health - Derived no-effect level - DNEL / 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
Inhalation								1 mg/m3

HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations

		mg/m3	ppm	mg/m3	ppm			
VLEP	FRA	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
TLV-ACGIH		1200	184					

Health - Derived no-effect level - DNEL / 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				300 mg/kg/d				
Inhalation				900 mg/m3				
Skin				300 mg/kg/d				300 mg/kg/d

N-BUTYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	710		950		
TLV	CZE	950	196,65	1200	248,4	
AGW	DEU	300	62	600 (C)	124 (C)	
TLV	DNK	710	150			
VLA	ESP	241	50	724	150	
VLEP	FRA	710	150	940	200	
VLEP	ITA	241	50	723	150	
TGG	NLD	150				
VLE	PRT	241	50	723	150	
NDS/NDSCh	POL	240		720		
TLV	ROU	241	50	723	150	
NGV/KGV	SWE	241	50	723 (C)	150 (C)	
WEL	GBR	724	150	966	200	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,18	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	0,98	mg/kg
Normal value for marine water sediment	0,09	mg/kg
Normal value for water, intermittent release	0,36	mg/l
Normal value of STP microorganisms	35,6	mg/l
Normal value for the terrestrial compartment	0,09	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic

				systemic		systemic		systemic
Inhalation	859,7 mg/m3	895,7 mg/m3	102,34 mg/m3	102,34 mg/m3	960 mg/m3	960 mg/m3	480 mg/m3	480 mg/m3

2-Propenoic acid, reaction products with dipentaerythritol

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,013	mg/l
Normal value in marine water	0,0013	mg/l
Normal value for fresh water sediment	2,8	mg/kg/d
Normal value for marine water sediment	0,28	mg/kg/d
Normal value for water, intermittent release	0,13	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,55	mg/kg/d

Health - Derived no-effect level - DNEL / 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
Inhalation								1,76 mg/m3
Skin								0,5 mg/kg/d

2-METHOXY-1-METHYLETHYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	275	50	550	100	SKIN	
TLV	CZE	270	49,14	550	100,1	SKIN	
AGW	DEU	270	50	270	50		
MAK	DEU	270	50	270	50		
TLV	DNK	275	50			SKIN	E
VLA	ESP	275	50	550	100	SKIN	
VLEP	FRA	275	50	550	100	SKIN	
VLEP	ITA	275	50	550	100	SKIN	
TGG	NLD	550					
VLE	PRT	275	50	550	100	SKIN	
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 concentration - PNEC		
Normal value in fresh water	0,635	mg/l
Normal value in marine water	0,0635	mg/l
Normal value for fresh water sediment	3,29	mg/kg
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-effect level - DNEL / 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	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

2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,001	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	0,24	mg/kg/d
Normal value for marine water sediment	0,024	mg/kg/d
Normal value for water, intermittent release	0,035	mg/l
Normal value of STP microorganisms	NPI	
Normal value for the food chain (secondary poisoning)	NPI	
Normal value for the terrestrial compartment	0,047	mg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / 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
Inhalation							VND	5,88 mg/m3
Skin							VND	1,7 mg/kg bw/d

Dipropylene glycol diacrylate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0034	mg/l
Normal value in marine water	0,00034	mg/l
Normal value for fresh water sediment	0,00884	mg/kg/d
Normal value for water, intermittent release	0,034	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,0013	mg/kg/d

Health - Derived no-effect level - DNEL / 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	2,08 mg/kg/d				
Inhalation			VND	7,24 mg/m3			VND	24,48 mg/m3
Skin			VND	1,66 mg/kg/d			VND	2,77 mg/kg

2-hydroxy-2-Methylpropiophenone

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		6				INHAL

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,002	mg/l
Normal value in marine water	0,0002	mg/l
Normal value for fresh water sediment	0,009	mg/kg
Normal value for marine water sediment	0,001	mg/kg
Normal value for water, intermittent release	0,02	mg/l
Normal value of STP microorganisms	45	mg/l
Normal value for the terrestrial compartment	0,001	mg/kg

Health - Derived no-effect level - DNEL / 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
Inhalation								3,5 mg/m3
Skin								1,25 mg/kg/d

BUTANOL

Threshold Limit Value

Type	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 concentration - PNEC		
Normal value in fresh water	0,082	mg/l
Normal value in marine water	0,0082	mg/l
Normal value for fresh water sediment	0,178	mg/kg
Normal value for marine water sediment	0,0178	mg/kg
Normal value for water, intermittent release	2,25	mg/l
Normal value of STP microorganisms	2476	mg/l

Normal value for the terrestrial compartment	0,015	mg/kg

Health - Derived no-effect level - DNEL / 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				
Inhalation			55 mg/m3	VND			310 mg/m3	VND

HYDROM HYDROPHONE SILICATE

Threshold Limit Value

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

BENZOPHENONE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		5				

(Phenyl) (hydroxycyclohexyl) ketone

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		10				INHAL
TLV-ACGIH		3				RESP

AROMATIC HYDROCARBONS, C9

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	100	20			1,2,3 trimetilbenzene
OEL	EU	100	20			1,2,3 trimetilbenzene
TLV-ACGIH			25			1,2,3 trimetilbenzene

Health - Derived no-effect level - DNEL / 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	11 mg/kg				11 mg/kg bw/d
Inhalation			VND	32 mg/m3			VND	150 mg/m3
Skin			VND	11 mg/kg			VND	25 mg/kg

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,018	mg/l

Normal value in marine water	0,0018	mg/l
Normal value for fresh water sediment	2	mg/kg/d
Normal value for marine water sediment	0,2	mg/kg/d
Normal value for water, intermittent release	0,018	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	41,33	mg/kg
Normal value for the terrestrial compartment	10	mg/kg/d

Health - Derived no-effect level - DNEL / 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				0,93 mg/kg bw/d				
Inhalation				1,62 mg/m3				6,6 mg/m3
Skin				0,83 mg/kg bw/d				1,67 mg/kg bw/d

Soybean oil, epoxidized

Health - Derived no-effect level - DNEL / 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		5 mg/kg/d		0,8 mg/kg/d				
Inhalation		17,5 mg/m3		2,8 mg/m3		70 mg/m3		11,9 mg/m3
Skin		5 mg/kg/d		0,8 mg/kg/d	10 mg/kg/d	10 mg/kg/d		1,7 mg/kg/d

ACRYLIC ACID ESTER

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00574	mg/l
Normal value in marine water	0,000574	mg/l
Normal value for fresh water sediment	0,01697	mg/kg
Normal value for marine water sediment	0,001697	mg/kg
Normal value for water, intermittent release	0,0574	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	5,6	mg/Kg food
Normal value for the terrestrial compartment	0,00111	mg/kg

Health - Derived no-effect level - DNEL / 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	1,39 mg/kg/d				
Inhalation			VND	4,87 mg/m3			VND	16,22 mg/m3
Skin			VND	1,15 mg/kg/d			VND	1,92 mg/kg/d

Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA)

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l

Normal value for fresh water sediment	35,8	mg/kg/d
Normal value for marine water sediment	3,58	mg/kg/d
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	7,1	mg/kg/d

Health - Derived no-effect level - DNEL / 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
Inhalation							VND	122,5 mg/m3
Skin							VND	17,5 mg/kg/d

METHYL METHACRYLATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR		50		100		
TLV	CZE	50	12	150	36		
AGW	DEU	210	50	420 (C)	100 (C)		
MAK	DEU	210	50	420	100		
TLV	DNK	102	25			SKIN	E
VLA	ESP		50		100		
VLEP	FRA	205	50	410	100		
VLEP	ITA		50		100		
TGG	NLD	205		410			
VLE	PRT		50		100		
NDS/NDSCh	POL	100		300			
TLV	ROU	205	50	410	100		
NGV/KGV	SWE	200	50	400	100		
ESD	TUR		50		100		
WEL	GBR	208	50	416	100		
OEL	EU		50		100		
TLV-ACGIH		205	50	410	100		

1-METHOXY-2-PROPANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	375	100	568	150	SKIN	
TLV	CZE	270	72,09	550	146,85	SKIN	
AGW	DEU	370	100	740	200		
MAK	DEU	370	100	740	200		
TLV	DNK	185	50			SKIN	E
VLA	ESP	375	100	568	150	SKIN	

VLEP	FRA	188	50	375	100	SKIN
VLEP	ITA	375	100	568	150	SKIN
TGG	NLD	375		563		SKIN
VLE	PRT	375	100	568	150	
NDS/NDSCh	POL	180		360		SKIN
TLV	ROU	375	100	568	150	SKIN
NGV/KGV	SWE	190	50	568	150	SKIN
ESD	TUR	375	100	568	150	SKIN
WEL	GBR	375	100	560	150	SKIN
OEL	EU	375	100	568	150	SKIN
TLV-ACGIH		184	50	368	100	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	10	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	41,6	mg/l
Normal value for marine water sediment	4,17	mg/kg
Normal value for water, intermittent release	100	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	2,47	mg/kg

Health - Derived no-effect level - DNEL / 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	3,3 mg/kg				3,3 mg/kg bw/d
Inhalation	553,5 mg/m3	VND	VND	43,9 mg/m3	535,5 mg/m3	VND	535,5 mg/m3	369 mg/m3
Skin			VND	18,1 mg/kg			VND	50,6 mg/kg

2,6-di-tert-butyl-p-cresol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	2				INHAL

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,000199	mg/l
Normal value in marine water	0,00002	mg/l
Normal value for fresh water sediment	0,0996	mg/kg
Normal value for marine water sediment	0,00996	mg/kg
Normal value for water, intermittent release	0,00199	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	16,7	mg/kg
Normal value for the terrestrial compartment	0,04769	mg/l

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic

			systemic	systemic		systemic
Inhalation		VND	1,74 mg/m3		VND	3,5 mg/m3
Skin		VND	5 mg/kg/d		VND	0,5 mg/kg/d

ACRYLIC ACID

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	29	10	59	20		STEL: 1'
TLV	CZE	29	9,686	59	19,706		NPK-P= 1 min
AGW	DEU	30	10	30 (C)	10 (C)		
MAK	DEU	30	10	30	10		
TLV	DNK			5,9	2	SKIN	E
VLEP	FRA	29	10	59	20		
VLEP	ITA	29	10	59	20	SKIN	STEL: 1 min
TGG	NLD	29		59			TGG: 1 min
VLE	PRT	29	10	59	20		STEL: 1 min
NDS/NDSCh	POL	10		29,5		SKIN	
TLV	ROU	29	10	59	20		STEL: 1'
WEL	GBR	29	10	59	20		STEL: 1-minute
OEL	EU	29	10	59	20		STEL: 1'
TLV-ACGIH		6	2			SKIN	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,003	mg/l
Normal value in marine water	0,0003	mg/l
Normal value for fresh water sediment	0,0236	mg/kg
Normal value for marine water sediment	0,00236	mg/kg
Normal value for water, intermittent release	0,0013	mg/l
Normal value of STP microorganisms	0,9	mg/l
Normal value for the food chain (secondary poisoning)	0,0023	mg/kg
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / 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
Inhalation	3,6 mg/m3	VND			30 mg/m3	VND	30 mg/m3	VND
Skin	1 mg/cm2	VND			1 mg/cm2	VND		

QUARTZ

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	DNK	0,3				
VLA	ESP		0,05			RESP

VLEP	FRA	0,1					RESP	
VLEP	ITA	0,1					RESP	
TGG	NLD	0,075					RESP	
VLE	PRT	0,025					RESP	
NDS/NDSCh	POL	0,1					RESP	
TLV	ROU	0,1					RESP	
NGV/KGV	SWE	0,1					RESP	
OEL	EU	0,1					RESP	
TLV-ACGIH		0,025					RESP	

4-methoxyphenol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	5				
TLV-ACGIH		5				

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0136	mg/l
Normal value in marine water	0,00136	mg/l
Normal value for fresh water sediment	0,125	mg/kg/d
Normal value for marine water sediment	0,0125	mg/kg/d
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,017	mg/kg/d

Health - Derived no-effect level - DNEL / 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
Inhalation					VND	10 mg/m3	VND	3 mg/m3

Triphenylphosphite

Health - Derived no-effect level - DNEL / 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
Inhalation								0,1 mg/m3
Skin								0,014 mg/kg/d

SODIUM HYDROXIDE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	2				
TLV	CZE	1		2		
TLV	DNK			2 (C)		
VLA	ESP			2		

VLEP	FRA	2		
NDS/NDSCh	POL	0,5	1	
NGV/KGV	SWE	1	2	INHAL
WEL	GBR		2	
TLV-ACGIH			2 (C)	

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

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

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	various	
Odour	acrylic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	23 ≤ T ≤ 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	partially soluble 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

VOC (Directive 2010/75/EU)	26,12 %
VOC (volatile carbon)	18,07 %

SECTION 10. Stability and reactivity

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.

CALCIUM CARBONATE

Decomposes at temperatures above 800°C/1472°F.

N-BUTYL ACETATE

Decomposes on contact with: water.

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.

1-METHOXY-2-PROPANOL

Dissolves various plastic materials.Stable in normal conditions of use and storage.

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

ACRYLIC ACID

Keep away from: oxidising agents.Maintaining a temperature of less than 13°C/55°F.May polymerise if exposed to: heat.

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.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents.May react dangerously with: alkaline hydroxides,potassium tert-butoxide.Forms explosive mixtures with: air.

2-METHOXY-1-METHYLETHYL ACETATE

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

BUTANOL

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

METHYL METHACRYLATE

May polymerise on contact with: ammonia,organic peroxides,persulphates.Risk of explosion on contact with: dibenzoyl peroxide,diterbutyl peroxide,propionaldehyde.May react dangerously with: strong oxidising agents.Forms explosive mixtures with: air.

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents,strong acids.

ACRYLIC ACID

Risk of explosion on contact with: oxidising agents,oxygen,peroxides.May polymerise on contact with: alkaline hydroxides,amines,ammonia,sulphuric acid.Forms explosive mixtures with: hot 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.

N-BUTYL ACETATE

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

BUTANOL

Avoid exposure to: sources of heat,naked flames.

METHYL METHACRYLATE

Avoid exposure to: heat,UV rays.Avoid contact with: oxidising substances,reducing substances,acids,bases.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

ACRYLIC ACID

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

10.5. Incompatible materials

CALCIUM CARBONATE

Incompatible with: acids.

N-BUTYL ACETATE

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc.

2-METHOXY-1-METHYLETHYL ACETATE

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

1-METHOXY-2-PROPANOL

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

ACRYLIC ACID

Incompatible with: peroxides,oxidising substances,strong acids,strong bases,amines,iron salts,oleum,chlorosulphuric acid.

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.

CALCIUM CARBONATE

May develop: calcium oxides,carbon oxides.

METHYL METHACRYLATE

When heated to decomposition releases: harsh fumes,zinc alloys.

SECTION 11. Toxicological information

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

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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE
The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

N-BUTYL ACETATE
WORKERS: inhalation; contact with the skin.

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

1-METHOXY-2-PROPANOL
WORKERS: inhalation; contact with the skin.
POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

N-BUTYL ACETATE
In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

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).

1-METHOXY-2-PROPANOL
The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. 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.

Interactive effects

N-BUTYL ACETATE
A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

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

1,6-HEXANEDIOL DIACRYLATE

LD50 (Dermal):	3600 mg/kg Coniglio / Rabbit
LD50 (Oral):	3650 mg/kg Ratto / Rat

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)

CALCIUM CARBONATE

LD50 (Dermal):	> 2000 mg/kg Ratto / Rat
LD50 (Oral):	> 2000 mg/kg Rat
LC50 (Inhalation mists/powders):	> 3 mg/l Ratto / Rat

HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC

LD50 (Dermal):	> 2000 mg/kg bw Rat
LD50 (Oral):	> 5000 mg/kg bw Rat
LC50 (Inhalation vapours):	> 5000 mg/m3 8h Rat

N-BUTYL ACETATE

LD50 (Dermal):	> 14000 mg/kg Rabbit
LD50 (Oral):	> 10000 mg/kg Rat
LC50 (Inhalation vapours):	> 21 mg/l/4h Rat

2-Propenoic acid, reaction products with dipentaerythritol

LD50 (Dermal):	2000 mg/kg Coniglio / Rabbit (OECD TG 402)
LD50 (Oral):	2000 mg/kg Ratto / Rat (OECD 423)

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal):	> 5000 mg/kg Coniglio / Rabbit
LD50 (Oral):	8500 mg/kg Ratto / Rat
LC50 (Inhalation vapours):	4345 ppm/6h Ratto / Rat

2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester

LD50 (Dermal):	> 2000 mg/kg Ratto - Rat
LD50 (Oral):	> 2000 mg/kg Ratto / Rat

Dipropylene glycol diacrylate

LD50 (Dermal):	> 2000 mg/kg bw (Rabbit) OECD 402
LD50 (Oral):	3530 mg/kg bw (Rat) OECD 401
LC50 (Inhalation vapours):	0,41 mg/l air (Rat) OECD 403

2-hydroxy-2-Methylpropiophenone

LD50 (Dermal):	6929 mg/kg Rat
LD50 (Oral):	1694 mg/kg Rat

BUTANOL

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

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LC50 (Inhalation vapours):	17,76 mg/l/4h Rat

HYDROM HYDROPHONE SILICATE

LD50 (Dermal):	> 5000 mg/kg Rat
LD50 (Oral):	> 3300 mg/kg Ratto / Rat - Nessuna mortalità
LC50 (Inhalation mists/powders):	> 0,139 mg/l/1h Ratto / Rat - Nessuna mortalità - Conc. massima raggiungibile

BENZOPHENONE

LD50 (Dermal):	3535 mg/kg Coniglio / Rabbit
LD50 (Oral):	> 10000 mg/kg Ratto / Rat

(Phenyl) (hydroxycyclohexyl) ketone

LD50 (Dermal):	> 5000 mg/kg Ratto/Rat
LD50 (Oral):	> 2500 mg/kg Ratto/Rat
LC50 (Inhalation mists/powders):	> 1 mg/l/4h Ratto/Rat

AROMATIC HYDROCARBONS, C9

LD50 (Dermal):	> 3160 mg/kg Ratto / Rat
LD50 (Oral):	3492 mg/kg Ratto / Rat
LC50 (Inhalation vapours):	> 6193 mg/l/4h Ratto / Rat

ACRYLIC ACID ESTER

LD50 (Dermal):	> 2000 mg/kg Coniglio/Rabbit
LD50 (Oral):	> 2000 mg/kg Ratto/Rat

Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA)

LD50 (Dermal):	> 2000 mg/kg Coniglio / Rabbit
LD50 (Oral):	> 2000 mg/kg Ratto / Rat

1-METHOXY-2-PROPANOL

LD50 (Dermal):	13000 mg/kg Rabbit
LD50 (Oral):	4000 mg/kg Rat
LC50 (Inhalation vapours):	54,6 mg/l/4h 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

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

Dipropylene glycol diacrylate	
LC50 - for Fish	2,2 mg/l/96h LC50 (96h) = 2.2 - 4.64 mg/L Test (static) DIN 38412 part L15
EC50 - for Crustacea	22,3 mg/l/48h (Daphnia) EU method C.2
EC50 - for Algae / Aquatic Plants	16,7 mg/l/72h Desmodesmus subspicatus
EC10 for Algae / Aquatic Plants	2,2 mg/l/72h Desmodesmus subspicatus
2-hydroxy-2-Methylpropiophenone	
LC50 - for Fish	160 mg/l/96h Leuciscus ido
EC50 - for Crustacea	> 119 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	1,95 mg/l/72h Piante acquatiche
ACRYLIC ACID ESTER	
LC50 - for Fish	5,74 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	91,4 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	12,2 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Fish	1,59 mg/l/96h Zebra fish
Chronic NOEC for Crustacea	25 mg/l/48h Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,921 mg/l/72h Desmodesmus subspicatus
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC	
LC50 - for Fish	> 1000 mg/l/96h Oncorthyncus mykiss OECD 203
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia magna
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
2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester	
LC50 - for Fish	1,89 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	2,26 mg/l/48h Daphnia magna
BENZOPHENONE	
LC50 - for Fish	15,3 mg/l/96h ittiotossicità
EC50 - for Crustacea	6,8 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	3,5 mg/l/72h
2-Propenoic acid, reaction products with dipentaerythritol	

LC50 - for Fish	13 mg/l/96h Cyprinus carpio (OCD TG 203)
EC50 - for Crustacea	35 mg/l/48h Daphnia magna (OECD TG 202)
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Pseudokirchneriella subcapitata (OECD TG 201)

HYDROM HYDROPHONE SILICATE

LC50 - for Fish	> 10000 mg/l/96h Brachyadanio rerio
EC50 - for Crustacea	> 1000 mg/l/24h 24h - Daphnia magna

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish	134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203
EC50 - for Crustacea	> 500 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h Selenastrum capricornutum OECD 201
Chronic NOEC for Fish	47,5 mg/l Oryzias latipes 14 gg OECD 204
Chronic NOEC for Crustacea	100 mg/l Dapnia magna 21 gg OECD 202

1,6-HEXANEDIOL DIACRYLATE

LC50 - for Fish	4,6 mg/l/96h Fish, 4.6 - 10 mg/L Test (static) DIN 38412 part
EC50 - for Crustacea	2,6 mg/l/48h Daphnia,Test 79/831/EEC
EC50 - for Algae / Aquatic Plants	1,5 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Algae / Aquatic Plants	0,5 mg/l Desmodesmus subspicatus 72h, inibitore di crescita

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

1-METHOXY-2-PROPANOL

LC50 - for Fish	> 20800 mg/l/96h Pimephales promelas
EC50 - for Crustacea	> 21100 mg/l/48h Daphnia magna, prova statica
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h Scenedesmus subspicatus, prova statica

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

N-BUTYL ACETATE

LC50 - for Fish	18 mg/l/96h Pimephales promelas
EC50 - for Crustacea	44 mg/l/48h Daphnia Magna
EC10 for Algae / Aquatic Plants	674,7 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Crustacea	23 mg/l 21d/ Daphnia magna

ACRYLIC ACID

LC50 - for Fish	97 mg/l/96h Mysidopsis bahia

EC50 - for Crustacea	95 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,13 mg/l/72h Desmodesmus subspicatus
EC10 for Algae / Aquatic Plants	0,03 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Crustacea	19 mg/l Daphnia magna

(Phenyl) (hydroxycyclohexyl) ketone

LC50 - for Fish	24 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	53,9 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	14,4 mg/l/72h alghe d'acqua dolce

12.2. Persistence and degradability

(Phenyl) (hydroxycyclohexyl) ketone
Readily biodegradable.

Dipropylene glycol diacrylate

Solubility in water	5,2 mg/l

Rapidly degradable

2-hydroxy-2-Methylpropiophenone

Solubility in water	13,3 g/100g

Rapidly degradable

ACRYLIC ACID ESTER

Solubility in water	1200 mg/l

Rapidly degradable

HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC

Rapidly degradable

AROMATIC HYDROCARBONS, C9

Rapidly degradable

2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester

Solubility in water	0,005 g/100 g acqua @20°C

NOT rapidly degradable

BENZOPHENONE

Solubility in water	< 0,0137 g/100 g acqua @20°C

Rapidly degradable

2-Propenoic acid, reaction products with dipentaerythritol

Solubility in water	80 mg/l @ 25°C

NOT rapidly degradable

CALCIUM CARBONATE

Solubility in water	6 - 20 mg/l

HYDROM HYDROPHONE SILICATE

Solubility in water	0,1 - 100 mg/l

Degradability: information not available

METHYL METHACRYLATE

Solubility in water	15300 mg/l

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE	
Solubility in water	> 10000 mg/l
Rapidly degradable OECD Gl 301F 83% 10 d 1,6-HEXANEDIOL DIACRYLATE	
Solubility in water	74,8 mg/l @25°C
Rapidly degradable BUTANOL	
Solubility in water	78 mg/l
Rapidly degradable 1-METHOXY-2-PROPANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable CYCLOHEXANONE	
Solubility in water	86 mg/l
Rapidly degradable N-BUTYL ACETATE	
Solubility in water	5,3 mg/l
Rapidly degradable ACRYLIC ACID	
Rapidly degradable (Phenyl) (hydroxycyclohexyl) ketone	
Solubility in water	0,044 g/100 g acqua @25°C
Rapidly degradable Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA) NOT rapidly degradable	

12.3. Bioaccumulative potential

Dipropylene glycol diacrylate
N-octanol/water partition coefficient
(Log Kow) 0:01 to 0:39
log Pow 0:39.

Dipropylene glycol diacrylate	
Partition coefficient: n-octanol/water	0,39 0,01-0,39 poco bioaccumulabile
2-hydroxy-2-Methylpropiophenone	
Partition coefficient: n-octanol/water	1,62 @ 20°C
ACRYLIC ACID ESTER	
Partition coefficient: n-octanol/water	2,52
2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester	
Partition coefficient: n-octanol/water	2,91 valore stimato
BENZOPHENONE	
Partition coefficient: n-octanol/water	3,18
BCF	< 12

HYDROM HYDROPHONE SILICATE

Partition coefficient: n-octanol/water	0,53

METHYL METHACRYLATE

Partition coefficient: n-octanol/water	1,38

2-METHOXY-1-METHYLETHYL ACETATE

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

1,6-HEXANEDIOL DIACRYLATE

Partition coefficient: n-octanol/water	2,81

BUTANOL

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

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water	< 1

CYCLOHEXANONE

Partition coefficient: n-octanol/water	0,86

N-BUTYL ACETATE

Partition coefficient: n-octanol/water	2,3
BCF	15,3

ACRYLIC ACID

Partition coefficient: n-octanol/water	0,46

(Phenyl) (hydroxycyclohexyl) ketone

BCF	< 12

Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA)

Partition coefficient: n-octanol/water	1,6

12.4. Mobility in soil

Dipropylene glycol diacrylate

Partition coefficient: soil/water	1 metodo: calcolato

2-hydroxy-2-Methylpropiophenone

Partition coefficient: soil/water	1,03

2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester	
Partition coefficient: soil/water	3,37
BENZOPHENONE	
Partition coefficient: soil/water	2,7
METHYL METHACRYLATE	
Partition coefficient: soil/water	0,94
2-METHOXY-1-METHYLETHYL ACETATE	
Partition coefficient: soil/water	1,7
1,6-HEXANEDIOL DIACRYLATE	
Partition coefficient: soil/water	2,1
BUTANOL	
Partition coefficient: soil/water	0,388
CYCLOHEXANONE	
Partition coefficient: soil/water	1,18
N-BUTYL ACETATE	
Partition coefficient: soil/water	< 3
ACRYLIC ACID	
Partition coefficient: soil/water	1,63 0.78 - 2.14
(Phenyl) (hydroxycyclohexyl) ketone	
Partition coefficient: soil/water	1,92 @20°C
Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA)	
Partition coefficient: soil/water	2,6

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1210

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3
IMDG: Class: 3 Label: 3
IATA: Class: 3 Label: 3

14.4. Packing group

ADR / RID, IMDG, IATA: III

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 L	Tunnel restriction code: (D/E)
	Special provision: 163, 367		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 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

Product

Point	3 - 40

Contained substance

Point	75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1A	Skin corrosion, category 1A
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
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute 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.
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.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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
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 (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)
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
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:
01 / 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.