

COMEC ITALIA SRL	Revision nr. 4
	Dated 17/02/2025
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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,	
Replaced revision:3 (Dated: 27/06/2023)	

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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 :	CKW3-M0T7-300T-A35Q
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 Cavarina (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 di Milano 02 66101029 (Niguarda Ca Granda - Milano) Centro Antiveleni di Pavia 0382 24444 (Fondazione Maugeri - Pavia) Centro Antiveleni di Bergamo 800 883300 (Papa Giovanni XXIII - Bergamo) Centro Antiveleni di Verona 800 011858 (AOUI - Verona) Centro Antiveleni di Firenze 055 7947819 (Careggi - Firenze) Centro Antiveleni di Roma 06 3054343 (Agostino Gemelli - Roma) Centro Antiveleni di Roma 06 49978000 (Umberto I - Roma) Centro Antiveleni di Roma 06 68593726 (Ospedale pediatrico Bambino Gesù - Roma) Centro Antiveleni di Napoli 081 5453333 (Antonio Cardarelli - Napoli) Centro Antiveleni di Foggia 800 183459 (Azienda ospedaliera universitaria - Foggia)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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,

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.

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Contains: Dipropylene glycol diacrylate
CYCLOHEXANONE
HEXANE-1,6-DIOL DIACRYLATE
2-Propenoic acid, 1,6-hexanediyl ester, polymer
Methyl benzoylformate
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-Propenoic acid, reaction products with pentaerythritol

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

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
HEXANE-1,6-DIOL 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, STOT SE 3 H335 LD50 Oral: 1890 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l
EC 203-631-1		
CAS 108-94-1		

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REACH Reg. 01-2119453616-35-xxxx		
2-Propenoic acid, reaction products with dipentaerythritol		
INDEX -	8 ≤ x < 9	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		
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		
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		
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 -	3,5 ≤ x < 4	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

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CAS 7473-98-5		
REACH Reg. 01-2119472306-39-xxxx		
BUTAN-1-OL		
INDEX 603-004-00-6	$2,5 \leq x < 3$	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		ATE Oral: 500 mg/kg
CAS 71-36-3		
REACH Reg. 01-2119484630-38		
Methyl benzoylformate		
INDEX -	$1 \leq x < 1,5$	Skin Sens. 1 H317
EC 239-263-3		
CAS 15206-55-0		
REACH Reg. 01-2120101338-67		
(Phenyl) (hydroxycyclohexyl) ketone		
INDEX -	$1 \leq x < 1,5$	
EC 213-426-9		
CAS 947-19-3		
REACH Reg. 01-2119457404-40-xxxx		
AROMATIC HYDROCARBONS, C9		
INDEX -	$0,34 \leq x < 0,36$	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		
2-Propenoic acid, reaction products with pentaerythritol		
INDEX -	$0,17 \leq x < 0,18$	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 629-850-6		LD50 Oral: 540 mg/kg
CAS 1245638-61-2		
REACH Reg. 01-2119490003-49		
Fatty acids, C18, unsaturated, dimers, products. Reaction with N, N-dimethyl-1, 3propanediamine and 1,3-propanediamine		
INDEX -	$0,14 \leq x < 0,16$	Skin Sens. 1 H317
EC 605-296-0		
CAS 162627-17-0		
ACRYLIC ACID ESTER		
INDEX -	$0,13 \leq x < 0,15$	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 -	$0,12 \leq x < 0,14$	Skin Sens. 1 H317
EC 500-130-2		

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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		
QUARTZ		
INDEX -	0 < x < 0,02	STOT RE 2 H373
EC 238-878-4		
CAS 14808-60-7		
ACRYLIC ACID		
INDEX 607-061-00-8	0 < x < 0,01	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 STOT SE 3 H335: ≥ 1%
EC 201-177-9		
CAS 79-10-7		ATE Oral: 500 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l, ATE Inhalation mists/powders: 1,5 mg/l
REACH Reg. 01-2119452449-31		
TOLUENE		
INDEX 601-021-00-3	0 < x < 0,01	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412
EC 203-625-9		
CAS 108-88-3		
REACH Reg. 01-2119471310-51-XXXX		

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

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

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It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a POISON CENTER or a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

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

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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.

2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheltered from moisture because it hydrolyses easily.

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 ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58

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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 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
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 Maddelerde Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733; 20.10.2023 / 32345.
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 2023

HEXANE-1,6-DIOL 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								
Route of exposure	Effects on consumers			Effects on workers				
	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

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TLV	CZE	40	9,8	80	196	SKIN		
AGW	DEU	80	20	80	20	SKIN		
TLV	DNK	41	10	81,6	20	SKIN E		
VLA	ESP	41	10	82	20	SKIN		
VLEP	FRA	40,8	10	81,6	20			
AK	HUN	40,8	10	81,6	20	SKIN		
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
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	Acute local	Acute	Chronic local	Chronic

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			systemic		systemic		systemic	
Inhalation							1,76 mg/m3	
Skin							0,5 mg/kg/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	241	723					
AGW	DEU	300	62	600	124			

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MAK	DEU	480	100	960	200			
TLV	DNK	241	50	723	150	E		
VLA	ESP	241	50	723	150			
VLEP	FRA	241	50	723	150			
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)			
ESD	TUR	241	50	723	150			
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 systemic	Acute local	Acute systemic	Chronic local	Chronic 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-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	550	100	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

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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		

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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
BUTAN-1-OL								
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			

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NGV/KGV	SWE	45	15	90	30	SKIN			
ESD	TUR	300	100						
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	
(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				

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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
2-Propenoic acid, reaction products with pentaerythritol								
Predicted no-effect concentration - PNEC								
Normal value in fresh water			0,0032	mg/l				
Normal value in marine water			0,00032	mg/l				
Normal value for water, intermittent release			0,032	mg/l				
Normal value of STP microorganisms			10	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 systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							VND	7,35 mg/m3
Skin							VND	1,04 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				

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Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	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								
Route of exposure	Effects on consumers				Effects on workers			
	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	100		
MAK	DEU	210	50	420	100		
TLV	DNK	102	25		100	SKIN	E
VLA	ESP		50		100		
VLEP	FRA	205	50	410	100		
AK	HUN	208	50	415	100	SKIN	
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		

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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	568	150	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		

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

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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
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	10			
MAK	DEU	30	10	30	10			
TLV	DNK	5,9	2	59	20	SKIN	E; stel 1 min	
VLA	ESP	29	10	59	20	SKIN		
VLEP	FRA	29	10	59	20			
AK	HUN	29	10	59	20	CK: 1 min		
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'		
ESD	TUR	29	10	59 (C)	20 (C)			
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		
Triphenylphosphite								
Health - Derived no-effect level - DNEL / DMEL								

Route of exposure	Effects on consumers				Effects on workers			
	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
ESD	TUR	2				
WEL	GBR			2		
TLV-ACGIH				2 (C)		

TOLUENE						
Threshold Limit Value						
Type	Country	TWA/8h	STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	192	50	384	100	SKIN
TLV	CZE	192	50,112	384	100,224	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	380	100	SKIN
TLV	DNK	94	25	384	100	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
AK	HUN	192	50	384	100	SKIN
VLEP	ITA	192	50			SKIN
TGG	NLD	150		384		
VLE	PRT	192	50	384	100	SKIN
NDS/NDSch	POL	100		200		SKIN
TLV	ROU	192	50	384	100	SKIN
NGV/KGV	SWE	192	50	384	100	SKIN
ESD	TUR	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH			20			

Predicted no-effect concentration - PNEC

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Normal value in fresh water				0,327	mg/l			
Normal value in marine water				0,327	mg/l			
Normal value for fresh water sediment				12,46	mg/kg			
Normal value for marine water sediment				12,46	mg/kg			
Normal value for water, intermittent release				0,327	mg/l			
Normal value of STP microorganisms				6,58	mg/l			
Normal value for the terrestrial compartment				2,31	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	8,13 mg/kg/d				
Inhalation	226 mg/m3	226 mg/m3	56,5 mg/m3	56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin			VND	226 mg/kg/d			VND	384 mg/kg/d

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.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

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 ISO 16321).

RESPIRATORY PROTECTION

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. 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).

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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.

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

Information not available

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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.

BUTAN-1-OL

Attacks various types of plastic materials.

1-METHOXY-2-PROPANOL

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

Absorbs and dissolves 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.

TOLUENE

Avoid exposure to: light.

10.2. Chemical stability

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

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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.

BUTAN-1-OL

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

AROMATIC HYDROCARBONS, C9

May react with: strong oxidising agents.

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.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds.May form explosive mixtures with: air.May react dangerously with: strong oxidising agents,strong acids,sulphur.

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.

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N-BUTYL ACETATE

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

BUTAN-1-OL

Avoid exposure to: sources of heat,naked flames.

Methyl benzoylformate

Keep away from: water.

May react dangerously if exposed to: ignition sources.

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.

Methyl benzoylformate

Avoid contact with: acids,bases.

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.

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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.

TOLUENE

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).

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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.		
TOLUENE Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.		
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).		
TOLUENE Certain drugs and other industrial products can interfere with the metabolism of the toluene.		
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
HEXANE-1,6-DIOL DIACRYLATE		
LD50 (Dermal):		3600 mg/kg Coniglio / Rabbit
LD50 (Oral):		3650 mg/kg Ratto / Rat
CYCLOHEXANONE		
ATE (Dermal):		1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):		1890 mg/kg Rat
LC50 (Inhalation vapours):		> 6,2 mg/l/4h Rat
ATE (Inhalation vapours):		11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
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)
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-METHOXY-1-METHYLETHYL ACETATE		

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LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 5000 mg/kg Coniglio / Rabbit 8500 mg/kg Ratto / Rat 4345 ppm/6h Ratto / Rat	
2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester		
LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Ratto - Rat > 2000 mg/kg Ratto / Rat	
Dipropylene glycol diacrylate		
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 2000 mg/kg bw (Rabbit) OECD 402 3530 mg/kg bw (Rat) OECD 401 0,41 mg/l air (Rat) OECD 403	
2-hydroxy-2-Methylpropiophenone		
LD50 (Dermal): LD50 (Oral):	6929 mg/kg Rat 1694 mg/kg Rat	
BUTAN-1-OL		
LD50 (Dermal): LD50 (Oral): ATE (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)	
LC50 (Inhalation vapours):	17,76 mg/l/4h Rat	
Dioxide is chemically prepared silicon		
LC50 (Inhalation mists/powders):	5 mg/l/1h	
(Phenyl) (hydroxycyclohexyl) ketone		
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders):	> 5000 mg/kg Ratto/Rat > 2500 mg/kg Ratto/Rat > 1 mg/l/4h Ratto/Rat	
AROMATIC HYDROCARBONS, C9		
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 3160 mg/kg Ratto / Rat 3492 mg/kg Ratto / Rat > 6193 mg/l/4h Ratto / Rat	
2-Propenoic acid, reaction products with pentaerythritol		
LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Coniglio / Rabbit 540 mg/kg Ratto / Rat	
ACRYLIC ACID ESTER		
LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Coniglio/Rabbit > 2000 mg/kg Ratto/Rat	
Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA)		
LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Coniglio / Rabbit > 2000 mg/kg Ratto / Rat	
1-METHOXY-2-PROPANOL		
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	13000 mg/kg Rabbit 4000 mg/kg Rat 54,6 mg/l/4h Rat	
TOLUENE		
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	12124 mg/kg Rabbit 5580 mg/kg Rat 28,1 mg/l/4h Rat	

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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

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

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 has negative effects on the 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

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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-Methylpropiofenone		
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 Oncorhyncus 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-Propenoic acid, reaction products with pentaerythritol		
LC50 - for Fish	3,2 mg/l/96h Cyprinus carpio	
EC50 - for Crustacea	0,36 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	1,2 mg/l/72h Pseudokirchneriella subcapitata	
Chronic NOEC for Fish	2,2 mg/l/96h Cyprinus carpio	
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	
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)	
2-METHOXY-1-METHYLETHYL ACETATE		

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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	
HEXANE-1,6-DIOL 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	
TOLUENE		
LC50 - for Fish	5,8 mg/l/96h Oncorhynchus mykiss	
EC50 - for Crustacea	116 mg/l/48h Gammarus pseudolimneus	
EC50 - for Algae / Aquatic Plants	125 mg/l/72h Pseudokirchneriella subcapitata	
BUTAN-1-OL		
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	

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(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-Methylpropiofenone 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-Propenoic acid, reaction products with pentaerythritol Rapidly degradable 2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester Solubility in water 0,005 g/100 g acqua @20°C NOT 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 METHYL METHACRYLATE Solubility in water 15300 mg/l Rapidly degradable 2-METHOXY-1-METHYLETHYL ACETATE Solubility in water > 10000 mg/l Rapidly degradable OECD GI 301F 83% 10 d HEXANE-1,6-DIOL DIACRYLATE Solubility in water 74,8 mg/l @25°C Rapidly degradable TOLUENE Solubility in water 100 - 1000 mg/l Rapidly degradable		

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BUTAN-1-OL 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 Dioxide is chemically prepared silicon Solubility in water 1 mg/l Methyl benzoylformate Solubility in water 2000 mg/l 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 METHYL METHACRYLATE Partition coefficient: n-octanol/water 1,38 2-METHOXY-1-METHYLETHYL ACETATE		

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Partition coefficient: n-octanol/water	1,2	
BCF	100	
HEXANE-1,6-DIOL DIACRYLATE		
Partition coefficient: n-octanol/water	2,81	
TOLUENE		
Partition coefficient: n-octanol/water	2,73	
BCF	90	
BUTAN-1-OL		
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	
Methyl benzoylformate		
Partition coefficient: n-octanol/water	1,9	
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	

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2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester		
Partition coefficient: soil/water	3,37	
METHYL METHACRYLATE		
Partition coefficient: soil/water	0,94	
2-METHOXY-1-METHYLETHYL ACETATE		
Partition coefficient: soil/water	1,7	
HEXANE-1,6-DIOL DIACRYLATE		
Partition coefficient: soil/water	2,1	
BUTAN-1-OL		
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		

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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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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: UN 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: not marine pollutant

IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30

Limited Quantities: 5 It

Tunnel restriction code: (D/E)

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IMDG:	Special provision: 163, 367	Limited Quantities: 5	
	EMS: F-E, S-D	It	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Passengers:	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

<u>Product</u>		
Point	3 - 40	
<u>Contained substance</u>		
Point	75	METHYL METHACRYLATE
Point	75	Triphenylphosphite REACH Reg.: 01-2119511213-58-xxxx
Point	75	CYCLOHEXANONE REACH Reg.: 01-2119453616-35-xxxx
Point	75	4-methoxyphenol REACH Reg.: 01-2119541813-40
Point	75	TOLUENE REACH Reg.: 01-2119471310-51-XXXX
Point	75	CALCIUM CARBONATE REACH Reg.: 01-2119486795-18
Point	75	BUTAN-1-OL REACH Reg.: 01-2119484630-38
Point	75	HEXANE-1,6-DIOL DIACRYLATE REACH Reg.: 01-2119484737-22-xxxx

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
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

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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.
H361d	Suspected of damaging the unborn child.
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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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

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- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- 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)
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 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
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 23. Delegated Regulation (UE) 2023/707
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 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
 26. Delegated Regulation (UE) 2024/197 (XXI 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 / 04 / 07 / 08 / 10 / 11 / 12 / 13 / 14 / 15.