

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
UFI :

**PLT UV WHITE: 160, 160 HD,
YPW3-40GM-E009-0ERS**

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
Full address
District and Country

**COMEC ITALIA SRL
Piazzale del lavoro 149
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
Supplier:

**info@comec-italia.it
Edgardo Baggini**

1.4. Emergency telephone number

For urgent inquiries refer to

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

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 sand to extinguish.
P261	Avoid breathing dust, gas or vapours.

Contains: Dipropylene glycol diacrylate
CYCLOHEXANONE
HEXANE-1,6-DIOL DIACRYLATE

2-Propenoic acid, reaction products with dipentaerythritol
2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester
Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA)
ACRYLIC ACID ESTER
2-Propenoic acid, reaction products with pentaerythritol
2-Propenoic acid, 1,6-hexanediyl ester, polymer
Methyl benzoylformate

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)
TITANIUM DIOXIDE		
INDEX -	25,5 ≤ x < 27	
EC 236-675-5		
CAS 13463-67-7		
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	9 ≤ x < 10,5	
EC		
CAS -		
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		
CYCLOHEXANONE		

COMEC ITALIA SRL			Revision nr. 4
			Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,			Printed on 18/02/2025
			Page n. 4/39
			Replaced revision:3 (Dated: 27/06/2023)
INDEX 606-010-00-7	8 ≤ x < 9	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335	
EC 203-631-1		LD50 Oral: 1890 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l	
CAS 108-94-1			
REACH Reg. 01-2119453616-35-xxxx			
N-BUTYL ACETATE			
INDEX 607-025-00-1	4 ≤ x < 4,5	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066	
EC 204-658-1			
CAS 123-86-4			
REACH Reg. 01-2119485493-29			
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-METHOXY-1-METHYLETHYL ACETATE			
INDEX 607-195-00-7	3 ≤ x < 3,5	Flam. Liq. 3 H226, STOT SE 3 H336	
EC 203-603-9			
CAS 108-65-6			
REACH Reg. 01-2119475791-29-xxxx			
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC			
INDEX -	2,5 ≤ x < 3	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			
2-hydroxy-2-Methylpropiophenone			
INDEX -	2 ≤ x < 2,5	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			
Methyl benzoylformate			
INDEX -	0,89 ≤ x < 1	Skin Sens. 1 H317	
EC 239-263-3			
CAS 15206-55-0			
REACH Reg. 01-2120101338-67			

COMEC ITALIA SRL		Revision nr. 4
		Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,		Printed on 18/02/2025
		Page n. 5/39
		Replaced revision:3 (Dated: 27/06/2023)
2-Propenoic acid, 1,6-hexanediyl ester, polymer		
INDEX	0,32 ≤ x < 0,34	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC	-	
CAS	67906-98-3	
AROMATIC HYDROCARBONS, C9		
INDEX	0,17 ≤ x < 0,18	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 ≤ x < 0,18	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 LD50 Oral: 540 mg/kg
EC	629-850-6	
CAS	1245638-61-2	
REACH Reg.	01-2119490003-49	
ACRYLIC ACID ESTER		
INDEX	0,12 ≤ x < 0,14	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	0,11 ≤ x < 0,13	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	0,07 ≤ x < 0,09
		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	0,03 ≤ x < 0,05
		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 < 0,01
		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	
QUARTZ		

COMEC ITALIA SRL	Revision nr. 4 Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,	Printed on 18/02/2025 Page n. 6/39 Replaced revision:3 (Dated: 27/06/2023)

INDEX -
0 < x < 0,01
STOT RE 2 H373

EC 238-878-4
CAS 14808-60-7
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

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

COMEC ITALIA SRL	Revision nr. 4
	Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,	Printed on 18/02/2025
	Page n. 7/39
	Replaced revision:3 (Dated: 27/06/2023)

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

COMEC ITALIA SRL	Revision nr. 4 Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,	Printed on 18/02/2025 Page n. 8/39 Replaced revision:3 (Dated: 27/06/2023)

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, sheletered from moisture because it hydrolises 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
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 Maddelerle 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

TITANIUM DIOXIDE					
Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	10			RESP
MAK	DEU	0,3		2,4	RESP Hinweis

COMEC ITALIA SRL					Revision nr. 4			
PLT UV WHITE: 160, 160 HD,					Dated 17/02/2025			
					Printed on 18/02/2025			
					Page n. 9/39			
					Replaced revision:3 (Dated: 27/06/2023)			
TLV	DNK	6	Som Ti					
VLA	ESP	10						
VLEP	FRA	10						
NDS/NDSch	POL	10	INHAL					
TLV	ROU	10	15					
NGV/KGV	SWE	5	Totaldamm					
WEL	GBR	10	INHAL					
WEL	GBR	4	RESP					
TLV-ACGIH		0,2	RESP					
Predicted no-effect concentration - PNEC								
Normal value in fresh water			0,127	mg/l				
Normal value in marine water			1	mg/l				
Normal value for fresh water sediment			1000	mg/kg				
Normal value for marine water sediment			100	mg/kg				
Normal value for water, intermittent release			0,61	mg/l				
Normal value of STP microorganisms			100	mg/l				
Normal value for the terrestrial compartment			100	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				700 mg/m3				
Inhalation								10 mg/m3
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								
	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					

COMEC ITALIA SRL						Revision nr. 4		
PLT UV WHITE: 160, 160 HD,						Dated 17/02/2025		
						Printed on 18/02/2025		
						Page n. 10/39		
						Replaced revision:3 (Dated: 27/06/2023)		
TLV-ACGIH3RESP								
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
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	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		

COMEC ITALIA SRL						Revision nr. 4			
PLT UV WHITE: 160, 160 HD,						Dated 17/02/2025			
						Printed on 18/02/2025			
						Page n. 11/39			
Replaced revision:3 (Dated: 27/06/2023)									
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	
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				
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				
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			

COMEC ITALIA SRL						Revision nr. 4		
PLT UV WHITE: 160, 160 HD,						Dated 17/02/2025		
						Printed on 18/02/2025		
						Page n. 12/39		
						Replaced revision:3 (Dated: 27/06/2023)		
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
2,4,6-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-METHOXY-1-METHYLETHYL ACETATE								
Threshold Limit Value								
Type	Country	TWA/8h	STEL/15min			Remarks / Observations		

COMEC ITALIA SRL						Revision nr. 4		
PLT UV WHITE: 160, 160 HD,						Dated 17/02/2025		
						Printed on 18/02/2025		
						Page n. 13/39		
						Replaced revision:3 (Dated: 27/06/2023)		
		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		
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
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

COMEC ITALIA SRL					Revision nr. 4			
PLT UV WHITE: 160, 160 HD,					Dated 17/02/2025			
					Printed on 18/02/2025			
					Page n. 14/39			
					Replaced revision:3 (Dated: 27/06/2023)			
Oral		300 mg/kg/d						
Inhalation		900 mg/m3						
Skin		300 mg/kg/d					300 mg/kg/d	
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
(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		
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				

COMEC ITALIA SRL					Revision nr. 4			
PLT UV WHITE: 160, 160 HD,					Dated 17/02/2025			
					Printed on 18/02/2025			
					Page n. 15/39			
					Replaced revision:3 (Dated: 27/06/2023)			
Inhalation		1,62 mg/m3				6,6 mg/m3		
Skin		0,83 mg/kg bw/d				1,67 mg/kg bw/d		
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
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
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			

COMEC ITALIA SRL						Revision nr. 4			
PLT UV WHITE: 160, 160 HD,						Dated 17/02/2025			
						Printed on 18/02/2025			
						Page n. 16/39			
						Replaced revision:3 (Dated: 27/06/2023)			
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	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				

COMEC ITALIA SRL						Revision nr. 4		
PLT UV WHITE: 160, 160 HD,						Dated 17/02/2025		
						Printed on 18/02/2025		
						Page n. 17/39		
						Replaced revision:3 (Dated: 27/06/2023)		
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	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			

COMEC ITALIA SRL					Revision nr. 4				
PLT UV WHITE: 160, 160 HD,					Dated 17/02/2025				
					Printed on 18/02/2025				
					Page n. 18/39				
					Replaced revision:3 (Dated: 27/06/2023)				
VLEP									

COMEC ITALIA SRL						Revision nr. 4		
PLT UV WHITE: 160, 160 HD,						Dated 17/02/2025		
						Printed on 18/02/2025		
						Page n. 19/39		
						Replaced revision:3 (Dated: 27/06/2023)		
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		
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			
SODIUM HYDROXIDE								
Threshold Limit Value								

COMEC ITALIA SRL					Revision nr. 4	
PLT UV WHITE: 160, 160 HD,					Dated 17/02/2025	
					Printed on 18/02/2025	
					Page n. 20/39	
					Replaced revision:3 (Dated: 27/06/2023)	
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 E
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						
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						

COMEC ITALIA SRL					Revision nr. 4			
PLT UV WHITE: 160, 160 HD,					Dated 17/02/2025			
					Printed on 18/02/2025			
					Page n. 21/39			
Replaced revision:3 (Dated: 27/06/2023)								

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Wear airtight protective goggles (see standard EN ISO 16321).

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.

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

9.1. Information on basic physical and chemical properties

Properties	Value	Information
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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

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.

N-BUTYL ACETATE

Decomposes on contact with: water.

COMEC ITALIA SRL	Revision nr. 4
PLT UV WHITE: 160, 160 HD,	Dated 17/02/2025
	Printed on 18/02/2025
	Page n. 24/39 Replaced revision:3 (Dated: 27/06/2023)
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. 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. 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. 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	

COMEC ITALIA SRL		Revision nr. 4
		Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,		Printed on 18/02/2025
		Page n. 25/39
		Replaced revision:3 (Dated: 27/06/2023)
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.		
N-BUTYL ACETATE		
Avoid exposure to: moisture,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		
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		

COMEC ITALIA SRL	Revision nr. 4
	Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,	Printed on 18/02/2025
	Page n. 26/39
	Replaced revision:3 (Dated: 27/06/2023)

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.

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.

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.

COMEC ITALIA SRL		Revision nr. 4																																		
		Dated 17/02/2025																																		
PLT UV WHITE: 160, 160 HD,		Printed on 18/02/2025																																		
		Page n. 27/39																																		
		Replaced revision:3 (Dated: 27/06/2023)																																		
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. TOLUENE Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus. <u>Interactive effects</u> 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. <u>ACUTE TOXICITY</u> <table><tr><td>ATE (Inhalation - vapours) of the mixture:</td><td>> 20 mg/l</td></tr><tr><td>ATE (Oral) of the mixture:</td><td>>2000 mg/kg</td></tr><tr><td>ATE (Dermal) of the mixture:</td><td>>2000 mg/kg</td></tr></table> TITANIUM DIOXIDE <table><tr><td>LD50 (Oral):</td><td>> 5000 mg/l Ratto/Rat</td></tr><tr><td>LC50 (Inhalation mists/powders):</td><td>> 6,82 mg/l Ratto/Rat</td></tr></table> HEXANE-1,6-DIOL DIACRYLATE <table><tr><td>LD50 (Dermal):</td><td>3600 mg/kg Coniglio / Rabbit</td></tr><tr><td>LD50 (Oral):</td><td>3650 mg/kg Ratto / Rat</td></tr></table> 2-Propenoic acid, reaction products with dipentaerythritol <table><tr><td>LD50 (Dermal):</td><td>2000 mg/kg Coniglio / Rabbit (OECD TG 402)</td></tr><tr><td>LD50 (Oral):</td><td>2000 mg/kg Ratto / Rat (OECD 423)</td></tr></table> CYCLOHEXANONE <table><tr><td>ATE (Dermal):</td><td>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)</td></tr><tr><td>LD50 (Oral):</td><td>1890 mg/kg Rat</td></tr><tr><td>LC50 (Inhalation vapours):</td><td>> 6,2 mg/l/4h Rat</td></tr><tr><td>ATE (Inhalation vapours):</td><td>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)</td></tr></table> N-BUTYL ACETATE <table><tr><td>LD50 (Dermal):</td><td>> 14000 mg/kg Rabbit</td></tr><tr><td>LD50 (Oral):</td><td>> 10000 mg/kg Rat</td></tr><tr><td>LC50 (Inhalation vapours):</td><td>> 21 mg/l/4h Rat</td></tr></table> 2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester <table><tr><td>LD50 (Dermal):</td><td>> 2000 mg/kg Ratto - Rat</td></tr></table>			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	LD50 (Oral):	> 5000 mg/l Ratto/Rat	LC50 (Inhalation mists/powders):	> 6,82 mg/l Ratto/Rat	LD50 (Dermal):	3600 mg/kg Coniglio / Rabbit	LD50 (Oral):	3650 mg/kg Ratto / Rat	LD50 (Dermal):	2000 mg/kg Coniglio / Rabbit (OECD TG 402)	LD50 (Oral):	2000 mg/kg Ratto / Rat (OECD 423)	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)	LD50 (Dermal):	> 14000 mg/kg Rabbit	LD50 (Oral):	> 10000 mg/kg Rat	LC50 (Inhalation vapours):	> 21 mg/l/4h Rat	LD50 (Dermal):	> 2000 mg/kg Ratto - Rat
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l																																			
ATE (Oral) of the mixture:	>2000 mg/kg																																			
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LD50 (Oral):	> 10000 mg/kg Rat																																			
LC50 (Inhalation vapours):	> 21 mg/l/4h Rat																																			
LD50 (Dermal):	> 2000 mg/kg Ratto - Rat																																			

COMEC ITALIA SRL		Revision nr. 4
PLT UV WHITE: 160, 160 HD,		Dated 17/02/2025
		Printed on 18/02/2025
		Page n. 28/39
		Replaced revision:3 (Dated: 27/06/2023)
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-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
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
2-hydroxy-2-Methylpropiophenone		
LD50 (Dermal):		6929 mg/kg Rat
LD50 (Oral):		1694 mg/kg 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
2-Propenoic acid, reaction products with pentaerythritol		
LD50 (Dermal):		> 2000 mg/kg Coniglio / Rabbit
LD50 (Oral):		540 mg/kg 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
TOLUENE		
LD50 (Dermal):		12124 mg/kg Rabbit
LD50 (Oral):		5580 mg/kg Rat
LC50 (Inhalation vapours):		28,1 mg/l/4h Rat
<u>SKIN CORROSION / IRRITATION</u>		
Causes skin irritation		
<u>SERIOUS EYE DAMAGE / IRRITATION</u>		
Causes serious eye damage		
<u>RESPIRATORY OR SKIN SENSITISATION</u>		
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
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

COMEC ITALIA SRL		Revision nr. 4
PLT UV WHITE: 160, 160 HD,		Dated 17/02/2025
		Printed on 18/02/2025
		Page n. 30/39
		Replaced revision:3 (Dated: 27/06/2023)
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 Oncorhynchus 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)		
TITANIUM DIOXIDE LC50 - for Fish > 10000 mg/l/96h Cypridonon variegatus		
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 Daphnia 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		

COMEC ITALIA SRL		Revision nr. 4
		Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,		Printed on 18/02/2025
		Page n. 31/39
		Replaced revision:3 (Dated: 27/06/2023)
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	
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	
12.2. Persistence and degradability		
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		

COMEC ITALIA SRL	Revision nr. 4 Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,	Printed on 18/02/2025 Page n. 32/39 Replaced revision:3 (Dated: 27/06/2023)
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 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 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 Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA) NOT rapidly degradable 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	

COMEC ITALIA SRL		Revision nr. 4
PLT UV WHITE: 160, 160 HD,		Dated 17/02/2025
		Printed on 18/02/2025
		Page n. 33/39
		Replaced revision:3 (Dated: 27/06/2023)
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		
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
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		
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
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
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
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

COMEC ITALIA SRL	Revision nr. 4
	Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,	Printed on 18/02/2025
	Page n. 35/39
	Replaced revision:3 (Dated: 27/06/2023)

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)
IMDG:	Special provision: 163, 367 EMS: F-E, S-D	Limited Quantities: 5 It	

COMEC ITALIA SRL			Revision nr. 4
			Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,			Printed on 18/02/2025
			Page n. 36/39
			Replaced revision:3 (Dated: 27/06/2023)

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

Product

Point

3 - 40

Contained substance

Point

75

HEXANE-1,6-DIOL DIACRYLATE
REACH Reg.: 01-2119484737-22-xxxx

Point

75

TOLUENE REACH Reg.: 01-2119471310-51-XXXX

Point

75

CYCLOHEXANONE REACH Reg.: 01-2119453616-35-xxxx

Point

75

4-methoxyphenol REACH Reg.: 01-2119541813-40

Point

75

TITANIUM DIOXIDE

Point

75

METHYL METHACRYLATE

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

COMEC ITALIA SRL	Revision nr. 4 Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,	Printed on 18/02/2025 Page n. 37/39 Replaced revision:3 (Dated: 27/06/2023)

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
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.

COMEC ITALIA SRL	Revision nr. 4 Dated 17/02/2025
PLT UV WHITE: 160, 160 HD,	Printed on 18/02/2025 Page n. 38/39 Replaced revision:3 (Dated: 27/06/2023)

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
- 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

COMEC ITALIA SRL	Revision nr. 4
PLT UV WHITE: 160, 160 HD,	Dated 17/02/2025 Printed on 18/02/2025 Page n. 39/39 Replaced revision:3 (Dated: 27/06/2023)

- 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)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 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.