

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

1.1. Product identifier

PLT 33 WHITE 2: 60 BN,
29E3-H0XJ-K00Q-KAF7

Intended use	Pad printing ink.
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Name	COMEC ITALIA SRL
Full address	Piazzale del lavoro 149
District and Country	21044 Cavarina (VA) ITALIA
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responsible for the Safety Data Sheet **info@comec-italia.it**
Supplier: **Edgardo Baggini**

For urgent inquiries refer to

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Centro Antiveleni di Pavia 0382 24444
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Centro Antiveleni di Bergamo 800 883300
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Centro Antiveleni di Verona 800 011858
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Centro Antiveleni di Roma 06 49978000
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Centro Antiveleni di Foggia 800 183459
(Azienda ospedaliera universitaria - Foggia)**

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.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
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.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains: Phthalic anhydride with less than 0,05% of maleic anhydride May produce an allergic reaction.

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: CYCLOHEXANONE
AROMATIC HYDROCARBONS, C9
XYLENE
BUTAN-1-OL

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 -	27 ≤ x < 28,5	
EC 236-675-5		
CAS 13463-67-7		
CYCLOHEXANONE		
INDEX 606-010-00-7	10,5 ≤ x < 12	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		
BUTYLGLYCOL ACETATE		
INDEX 607-038-00-2	8 ≤ x < 9	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332
EC 203-933-3		ATE Oral: 500 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l
CAS 112-07-2		
REACH Reg. 01-2119475112-47xxxx		
2-METHOXY-1-METHYLETHYL ACETATE		
INDEX 607-195-00-7	6 ≤ x < 7	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-603-9		
CAS 108-65-6		
REACH Reg. 01-2119475791-29-xxxx		
AROMATIC HYDROCARBONS, C9		
INDEX -	5 ≤ x < 6	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		
XYLENE		
INDEX 601-022-00-9	2,5 ≤ x < 3	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C ATE Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11,58 mg/l/4h
EC 215-535-7		
CAS 1330-20-7		
REACH Reg. 01-2119488216-32-xxxx		
BUTAN-1-OL		
INDEX 603-004-00-6	1,5 ≤ x < 2	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336 ATE Oral: 500 mg/kg
EC 200-751-6		
CAS 71-36-3		
REACH Reg. 01-2119484630-38		
ETHYLBENZENE		
INDEX 601-023-00-4	0,5 ≤ x < 0,6	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412 LC50 Inhalation vapours: 17,2 mg/l/4h
EC 202-849-4		
CAS 100-41-4		
REACH Reg. 01-2119489370-35-xxxx		
CHLOROBENZENE		
INDEX 602-033-00-1	0,33 ≤ x < 0,35	Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Irrit. 2 H315, Aquatic Chronic 2 H411 LC50 Inhalation vapours: 15,5 mg/l/4h
EC 203-628-5		
CAS 108-90-7		
REACH Reg. 01-2119432722-45-xxxx		
Phthalic anhydride with less than 0,05% of maleic anhydride		
INDEX 607-009-00-4	0,12 ≤ x < 0,14	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, EUH208 ATE Oral: 500 mg/kg
EC 201-607-5		
CAS 85-44-9		
REACH Reg. 01-2119457017-41		
N-BUTYL ACETATE		
INDEX 607-025-00-1	0,03 ≤ x < 0,05	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC 204-658-1		
CAS 123-86-4		
REACH Reg. 01-2119485493-29		

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.

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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 contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. 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

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

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	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	10			RESP
MAK	DEU	0,3		2,4	RESP Hinweis
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					

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<table><tr><td></td><td colspan="4">Effects on consumers</td><td colspan="4">Effects on workers</td></tr><tr><td>Route of exposure</td><td>Acute local</td><td>Acute systemic</td><td>Chronic local</td><td>Chronic systemic</td><td>Acute local</td><td>Acute systemic</td><td>Chronic local</td><td>Chronic systemic</td></tr><tr><td>Oral</td><td></td><td></td><td></td><td>700 mg/m3</td><td></td><td></td><td></td><td></td></tr><tr><td>Inhalation</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10 mg/m3</td></tr></table>										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
	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																																				
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																																							
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																																						

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		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
BUTYLGLYCOL ACETATE									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3		ppm	mg/m3		ppm		
TLV	BGR	133		20	333		50	SKIN	
TLV	CZE	130		19,5	300		45	SKIN	
AGW	DEU	65		10	130		20	SKIN 11	
MAK	DEU	66		10	132		20	SKIN Hinweis	
TLV	DNK	134		20	333		50	SKIN E	
VLA	ESP	133		20	333		50	SKIN	
VLEP	FRA	66,5		10	333		50		
VLEP	ITA	133		20	333		50	SKIN	
TGG	NLD	135			333			SKIN	
VLE	PRT	133		20	333		50	SKIN	
NDS/NDSch	POL	100			300			SKIN	
TLV	ROU	133		20	333		50	SKIN	
NGV/KGV	SWE	70		10	333		50	SKIN	
ESD	TUR	133		20	333		50	SKIN	
WEL	GBR	133		20	332		50	SKIN	
OEL	EU	133		20	333		50	SKIN	
TLV-ACGIH		131		20					
Predicted no-effect concentration - PNEC									
Normal value in fresh water					0,304	mg/l			
Normal value in marine water					0,03	mg/l			
Normal value for fresh water sediment					2,03	mg/l			
Normal value for marine water sediment					0,203	mg/l			
Normal value for water, intermittent release					0,56	mg/l			
Normal value of STP microorganisms					90	mg/l			
Normal value for the food chain (secondary poisoning)					60	mg/kg			
Normal value for the terrestrial compartment					0,415	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		36 mg/kg/d	VND	4,3 mg/kg/d				
Inhalation	200 mg/m3		499 mg/m3	VND	80 mg/m3	333 mg/m3	773 mg/m3	VND	133 mg/m3
Skin			72 mg/kg bw/d	VND	102 mg/kg/d	102 mg/kg/d	27 mg/kg/d	VND	169 mg/kg/d
2-METHOXY-1-METHYLETHYL ACETATE									
Threshold Limit Value									

Type	Country	TWA/8h	STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	275	50	550	100	SKIN
TLV	CZE	270	49,14	550	100,1	SKIN
AGW	DEU	270	50	270	50	
MAK	DEU	270	50	270	50	
TLV	DNK	275	50	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

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

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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
XYLENE								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	221	50	442	100	SKIN		
TLV	CZE	200	45,4	400	90,8	SKIN		
AGW	DEU	220	50	440	100	SKIN		
MAK	DEU	220	50	440	100	SKIN		
TLV	DNK	109	25			SKIN		E
VLA	ESP	221	50	442	100	SKIN		
VLEP	FRA	221	50	442	100	SKIN		
AK	HUN	221	50	442	100	SKIN		
VLEP	ITA	221	50	442	100	SKIN		
TGG	NLD	210		442		SKIN		
VLE	PRT	221	50	442	100	SKIN		
NDS/NDSch	POL	100		200		SKIN		
TLV	ROU	221	50	442	100	SKIN		
NGV/KGV	SWE	221	50	442	100	SKIN		
ESD	TUR	221	50	442	100	SKIN		
WEL	GBR	220	50	441	100	SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH			20					
Predicted no-effect 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								
	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	1,6 mg/kg/d				
Inhalation	174 mg/m3	174 mg/m3	VND	14,8 mg/m3	289 mg/m3	289 mg/m3	77 mg/m3	77 mg/m3
Skin			VND	108 mg/kg/d	174 mg/m3	VND	VND	180 mg/kg
BUTAN-1-OL								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		

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		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	100		150				
TLV	CZE	300	97,5	600	195			
AGW	DEU	310	100	310	100			
MAK	DEU	310	100	310	100			
TLV	DNK			150 (C)	50 (C)	SKIN		
VLA	ESP	61	20	154	50			
VLEP	FRA			150	50			
TGG	NLD			45				
NDS/NDSch	POL	50		150		SKIN		
TLV	ROU	100	33	200	66			
NGV/KGV	SWE	45	15	90	30	SKIN		
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
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
ETHYLBENZENE								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	435		545		SKIN		
TLV	CZE	200	45,4	500	113,5	SKIN		
AGW	DEU	88	20	176	40	SKIN		

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MAK	DEU	88	20	176	40	SKIN		
TLV	DNK	217	50	434	100	SKIN	E	
VLA	ESP	441	100	884	200	SKIN		
VLEP	FRA	88,4	20	442	100	SKIN		
AK	HUN	442	100	884	200	SKIN		
VLEP	ITA	442	100	884	200	SKIN		
TGG	NLD	215		430		SKIN		
VLE	PRT	442	100	884	200	SKIN		
NDS/NDSch	POL	200		400		SKIN		
TLV	ROU	442	100	884	200	SKIN		
NGV/KGV	SWE	220	50	884	200	SKIN		
ESD	TUR	442	100	884	200	SKIN		
WEL	GBR	441	100	552	125	SKIN		
OEL	EU	442	100	884	200	SKIN		
TLV-ACGIH		87	20					
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,1	mg/l ECHA 2018			
Normal value in marine water				0,01	mg/l ECHA 2018			
Normal value for fresh water sediment				13,7	mg/kg ECHA 2018			
Normal value for marine water sediment				1,37	mg/kg ECHA 2018			
Normal value for water, intermittent release				0,1	mg/l ECHA 2018			
Normal value of STP microorganisms				9,6	mg/l ECHA 2018			
Normal value for the food chain (secondary poisoning)				20	mg/kg ECHA 2018			
Normal value for the terrestrial compartment				2,68	mg/kg ECHA 2018			
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,018	mg/l			
Normal value in marine water				0,0018	mg/l			
Normal value for fresh water sediment				2	mg/kg/d			
Normal value for marine water sediment				0,2	mg/kg/d			
Normal value for water, intermittent release				0,018	mg/l			
Normal value of STP microorganisms				100	mg/l			
Normal value for the food chain (secondary poisoning)				41,33	mg/kg			
Normal value for the terrestrial compartment				10	mg/kg/d			
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,93 mg/kg bw/d				
Inhalation				1,62 mg/m3				6,6 mg/m3
Skin				0,83 mg/kg bw/d				1,67 mg/kg bw/d
CHLOROBENZENE								
Threshold Limit Value								

Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	23	5	70	15
TLV	CZE	25	6,8	70	19,04
AGW	DEU	23	5	46	10
MAK	DEU	23	5	46	10
TLV	DNK	23	5	70	15E
VLA	ESP	23	5	70	15
VLEP	FRA	23	5	70	15
AK	HUN	23	5	70	15
VLEP	ITA	23	5	70	15
TGG	NLD	23		70	
VLE	PRT	23	5	70	15
NDS/NDSch	POL	23		70	
TLV	ROU	23	5	70	15
NGV/KGV	SWE	23	5	70	15
ESD	TUR	23	5	70	15
WEL	GBR	4,7	1	14	3SKIN
OEL	EU	23	5	70	15
TLV-ACGIH		46	10		

Phthalic anhydride with less than 0,05% of maleic anhydride

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		1			

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	150E
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

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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	
Bis(2-ethylhexyl) adipate									
Predicted no-effect concentration - PNEC									
Normal value in fresh water					0,0032	mg/l			
Normal value in marine water					0,0032	mg/l			
Normal value for fresh water sediment					15,6	mg/kg			
Normal value for water, intermittent release					0,0032	mg/l			
Normal value of STP microorganisms					35	mg/l			
Normal value for the terrestrial compartment					0,865	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		1,3 mg/kg bw/d							
Inhalation				4,4 mg/m3				17,8 mg/m3	
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d	
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					

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NGV/KGV	SWE	1	2	INHAL
ESD	TUR	2		
WEL	GBR		2	
TLV-ACGIH			2 (C)	

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

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).

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	typical of solvent	
Melting point / freezing point	not available	
Initial boiling point	> 140 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	23 ≤ T ≤ 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	soluble in water and in polar solvents	
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.

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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.

N-BUTYL ACETATE

Decomposes on contact with: water.

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.

2-METHOXY-1-METHYLETHYL ACETATE

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

AROMATIC HYDROCARBONS, C9

May react with: strong oxidising agents.

XYLENE

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

BUTAN-1-OL

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

ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.

N-BUTYL ACETATE

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

10.4. Conditions to avoid

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

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

BUTAN-1-OL

Avoid exposure to: sources of heat,naked flames.

N-BUTYL ACETATE

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

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

N-BUTYL ACETATE

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

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.

ETHYLBENZENE

May develop: methane,styrene,hydrogen,ethane.

SECTION 11. Toxicological information

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

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

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

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2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin. XYLENE WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air. ETHYLBENZENE WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance. N-BUTYL ACETATE WORKERS: inhalation; contact with the skin. Delayed and immediate effects as well as chronic effects from short and long-term exposure 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). XYLENE Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus. ETHYLBENZENE As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract. 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. Interactive effects XYLENE Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes. N-BUTYL ACETATE A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011). ACUTE TOXICITY ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: > 20 mg/l >2000 mg/kg >2000 mg/kg TITANIUM DIOXIDE LD50 (Oral): LC50 (Inhalation mists/powders): > 5000 mg/l Ratto/Rat > 6,82 mg/l 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)		

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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)		
BUTYLGLYCOL ACETATE		
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)		
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)		
LC50 (Inhalation vapours): > 2,66 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-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		
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		
XYLENE		
LD50 (Dermal): 4350 mg/kg Rabbit		
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): 3523 mg/kg Rat		
LC50 (Inhalation vapours): 11,58 mg/l/4h Rat		
BUTAN-1-OL		
LD50 (Dermal): 3400 mg/kg Rabbit		
LD50 (Oral): 2290 mg/kg Rat		
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)		
LC50 (Inhalation vapours): 17,76 mg/l/4h Rat		
Soybean oil, epoxidized		
LD50 (Dermal): > 20 ml/kg Coniglio / Rabbit		
LD50 (Oral): > 5000 mg/kg Ratto / Rat		
ETHYLBENZENE		
LD50 (Dermal): 15354 mg/kg Rabbit		
LD50 (Oral): 3500 mg/kg Rat		
LC50 (Inhalation vapours): 17,2 mg/l/4h Rat		
CHLOROBENZENE		
LD50 (Oral): > 2000 mg/kg Rat		
LC50 (Inhalation vapours): 15,5 mg/l/4h Rat		
N-BUTYL ACETATE		
LD50 (Dermal): > 14000 mg/kg Rabbit		
LD50 (Oral): > 10000 mg/kg Rat		
LC50 (Inhalation vapours): > 21 mg/l/4h Rat		
SKIN CORROSION / IRRITATION		
Causes skin irritation		

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SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Phthalic anhydride with less than 0,05% of maleic anhydride

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).

Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

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

Soybean oil, epoxidized

LC50 - for Fish

900 mg/l/48h 48h - Leuciscus idus melanotus

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EC50 - for Crustacea	> 100 mg/l/24h 24h - Daphnia magna	
EC50 - for Algae / Aquatic Plants	8 mg/l/72h Scenedsmus subspicatus	
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	
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 Dapnia magna 21 gg OECD 202	
ETHYLBENZENE		
LC50 - for Fish	4,2 mg/l/96h Oncorhynchus mykiss OECD TG 203	
EC50 - for Crustacea	2,4 mg/l/48h Daphnia magna (database Ecotox)	
EC50 - for Algae / Aquatic Plants	3,6 mg/l/72h Pseudokirchneriella subcapitata (IUCLID)	
CHLOROBENZENE		
LC50 - for Fish	7,72 mg/l/96h Pimephales promelas	
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	
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	
BUTYLGLYCOL ACETATE		
LC50 - for Fish	> 20 mg/l/96h Fish 20-40 mg/kg (48h)	
EC50 - for Crustacea	145 mg/l/24h Daphnia Magna (24h)	

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EC50 - for Algae / Aquatic Plants	1570 mg/l/72h Scenedesmus subspicatus	
12.2. Persistence and degradability		
AROMATIC HYDROCARBONS, C9		
Rapidly degradable		
XYLENE		
Solubility in water	100 - 1000 mg/l	
Rapidly degradable		
2-METHOXY-1-METHYLETHYL ACETATE		
Solubility in water	> 10000 mg/l	
Rapidly degradable		
OECD GI 301F 83% 10 d		
ETHYLBENZENE		
Solubility in water	200 mg/l ECHA 2018/05/18	
Rapidly degradable		
CHLOROBENZENE		
Solubility in water	100 - 1000 mg/l	
NOT rapidly degradable		
BUTAN-1-OL		
Solubility in water	78 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		
BUTYLGLYCOL ACETATE		
Solubility in water	15000 mg/l	
Rapidly degradable		
12.3. Bioaccumulative potential		
XYLENE		
Partition coefficient: n-octanol/water	3,12	
BCF	25,9	
2-METHOXY-1-METHYLETHYL ACETATE		
Partition coefficient: n-octanol/water	1,2	
BCF	100	
ETHYLBENZENE		
Partition coefficient: n-octanol/water	3,6	
CHLOROBENZENE		
Partition coefficient: n-octanol/water	3	
BUTAN-1-OL		
Partition coefficient: n-octanol/water	1	

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BCF		
		3,16
CYCLOHEXANONE		
Partition coefficient: n-octanol/water		0,86
N-BUTYL ACETATE		
Partition coefficient: n-octanol/water		2,3
BCF		15,3
BUTYLGLYCOL ACETATE		
Partition coefficient: n-octanol/water		1,51
12.4. Mobility in soil		
XYLENE		
Partition coefficient: soil/water		2,73
2-METHOXY-1-METHYLETHYL ACETATE		
Partition coefficient: soil/water		1,7
CHLOROBENZENE		
Partition coefficient: soil/water		2,42
BUTAN-1-OL		
Partition coefficient: soil/water		0,388
CYCLOHEXANONE		
Partition coefficient: soil/water		1,18
N-BUTYL ACETATE		
Partition coefficient: soil/water		< 3
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 $\geq$ 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)
	Special provision: 163, 367		

IMDG:	EMS: F-E, S-D	Limited Quantities: 5	
IATA:	Cargo:	It	
	Passengers:	Maximum quantity: 220 L	Packaging instructions: 366
	Special provision:	Maximum quantity: 60 L	Packaging instructions: 355
		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	CYCLOHEXANONE REACH Reg.: 01-2119453616-35-xxxx
Point	75	Phthalic anhydride with less than 0,05% of maleic anhydride REACH Reg.: 01-2119457017-41
Point	75	CHLOROBENZENE REACH Reg.: 01-2119432722-45-xxxx
Point	75	XYLENE REACH Reg.: 01-2119488216-32-xxxx
Point	75	BUTAN-1-OL REACH Reg.: 01-2119484630-38
Point	75	TITANIUM DIOXIDE

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

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Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.

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H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains <name of sensitising substance>. May produce an allergic reaction.

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
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)

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- 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:
02 / 03 / 04 / 07 / 08 / 11 / 13 / 14 / 15.