Revision nr. 1

Dated 27/02/2024 First compilation

#### Printed on 27/02/2024

### PLT 9: 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR, 65 NR, 70 TR,

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## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

#### SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Product name

UFI:

PLT 9: INK SYSTEM. 10 GL, 11 GS, 12 AR, 21 RS, 22 RC, 25 MG, 27 VT, 32 BL, 40 VR, 65 NR, 70 TR, KM63-203K-Q003-0Q06

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Pad printing ink.

1.3. Details of the supplier of the safety data sheet Name COMEC ITALIA SRL Full address Piazzale del lavoro 149 District and Country 21044 Cavaria (VA) ITALIA Tel. +39 0331 219516 Fax +39 0331 216161 e-mail address of the competent person responsible for the Safety Data Sheet info@comec-italia.it Supplier: Edgardo Baggini 1.4. Emergency telephone number For urgent inquiries refer to Centro Antiveleni di Milano 02 66101029 (Niguarda Ca Granda - Milano) Centro Antiveleni di Pavia 0382 24444 (Fondazione Maugeri - Pavia) Centro Antiveleni di Bergamo 800 883300 (Papa Giovanni XXIII - Bergamo) Centro Antiveleni di Verona 800 011858 (AOUI - Verona) Centro Antiveleni di Firenze 055 7947819 (Careggi - Firenze) Centro Antiveleni di Roma 06 3054343 (Agostino Gemelli - Roma) Centro Antiveleni di Roma 06 49978000 (Umberto I - Roma) Centro Antiveleni di Roma 06 68593726 (Ospedale pediatrico Bambino Gesu - Roma) Centro Antiveleni di Napoli 081 5453333 (Antonio Cardarelli - Napoli) Centro Antiveleni di Foggia 800 183459 (Azienda ospedaliera universitaria - Foggia)

### **SECTION 2. Hazards identification**

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#### 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.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity,	H412	Harmful to aquatic life with long lasting effects.
category 3		

#### 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.
H336	May cause drowsiness or dizziness.
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 P305+P351+P338	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280 P310	Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378	Immediately call a POISON CENTER or a doctor. In case of fire: use chemical powder, CO2 or dry send to extinguish.
P261	Avoid breathing dust, gas or vapours.
Contains:	BUTANOL CYCLOHEXANONE
	2-METHOXY-1-METHYLETHYL ACETATE

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AROMATIC HYDROCARBONS, C9

#### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration  $\geq 0.1\%$ .

### **SECTION 3.** Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
CYCLOHEXANONE		
INDEX 606-010-00-7	15 ≤ x < 16,5	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335
EC 203-631-1		LD50 Oral: 1535 mg/kg, LD50 Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11 mg/l/4h
CAS 108-94-1		
REACH Reg. 01-2119453616-35-		
BUTYLGLYCOL ACETATE		
INDEX 607-038-00-2	12 ≤ x < 13,5	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332
EC 203-933-3		LD50 Oral: 1880 mg/kg, LD50 Dermal: 1500 mg/kg, STA Inhalation vapours: 11 mg/l
CAS 112-07-2		
REACH Reg. 01-2119475112- 47xxxx		
2-METHOXY-1-METHYLETHYL		
ACETATE INDEX 607-195-00-7	12 ≤ x < 13,5	Flam. Lig. 3 H226, STOT SE 3 H336
EC 203-603-9	- ) -	
CAS 108-65-6		
REACH Reg. 01-2119475791-29-		
AROMATIC HYDROCARBONS, C9		
INDEX -	6≤x< 7	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		
BUTANOL		
INDEX 603-004-00-6	3 ≤ x < 3,5	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
EC 200-751-6		STA Oral: 500 mg/kg
CAS 71-36-3		
REACH Reg. 01-2119484630-38		
Phthalic anhydride with less than		

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0.05% of maleic anhydride  $0,21 \le x < 0,22$ Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, INDEX 607-009-00-4 Resp. Sens. 1 H334, Skin Sens. 1 H317, EUH208 EC 201-607-5 STA Oral: 500 mg/kg CAS 85-44-9 REACH Reg. 01-2119457017-41 N-BUTYL ACETATE INDEX 607-025-00-1  $0.14 \le x < 0.16$ Flam. Lig. 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

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

#### **SECTION 5.** Firefighting measures

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.2. Special hazards arising from the substance or mixture

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

#### 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

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extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

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

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

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

#### 6.4. Reference to other sections

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

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

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

#### 7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

#### **SECTION 8. Exposure controls/personal protection**

8.1. Control parameters

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#### Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари
		2020r.)
CZE	Česká Republika	Dařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se
UZL		stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.
		MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher
		Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste
INLD	Nedenand	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
	. ontagan	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
I OL	1 oloku	w sprawie najwyższych dopusją, pracy recentrologie z dna to tudog zoch z inzignacie rezporządzenie w sprawie najwyższych dopusjączalny stężeń i natężeń czynników szkodliwych dla zdrowia w
		środowisku pracy
ROU	România	Hotárárea nr. 53/2021 pentru modificarea hotárárii guvernului nr. 1.218/2006, precum si pentru modificarea
1100	Romania	si completarea hotărării guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS
OWL	Overige	2018:1)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OELEU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;
	011 10	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	ACGH 2021

#### CYCLOHEXANONE

Туре	Country	TWA/8h		STEL/15min		Remarks / Observatior	IS	
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	40,8	10	81,6	20	SKIN		
TLV	CZE	40	9,8	80	196	SKIN		
AGW	DEU	80	20	80	20	SKIN		
TLV	DNK	41	10			SKIN	E	
VLA	ESP	41	10	82	20	SKIN		
VLEP	FRA	40,8	10	81,6	20			
VLEP	ITA	40,8	10	81,6	20	SKIN		
TGG	NLD			50		SKIN		
VLE	PRT	40,8	10	81,6	20	SKIN		
NDS/NDSCh	POL	40		80		SKIN		
TLV	ROU	40,8	10	81,6	20	SKIN		
NGV/KGV	SWE	41	10	81	20	SKIN		
ESD	TUR	40,8	10	81,6	20	SKIN		
WEL	GBR	41	10	82	20	SKIN		
OEL	EU	40,8	10	81,6	20	SKIN		
TLV-ACGIH		80	20	201	50	SKIN		
Predicted no-effect concen	tration - PNEC							
Normal value in fresh wate	r			0,1	m	g/l		

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Normal value in marine wate	er			0,01	mg	/I		
Normal value for fresh wate	r sediment			0,512	mg	/kg		
Normal value for marine wa	ter sediment			0,0512	mg	/kg		
Normal value for water, inte	rmittent release			0,329	mg	/I		
Normal value of STP microc	organisms			10	mg	/I		
Normal value for the terrestr	ial compartment			0,0435	mg	/kg		
Health - Derived no-eff	Effects on	DMEL			Effects on workers			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 1,5 mg/kg		systemic		systemic
Inhalation			VND	bw/d 10 mg/m3			VND	40 mg/m3
Skin			VND	1 mg/kg bw/d			VND	4 mg/kg bw/c
				0.0				0.0
Polymer based on viny Threshold Limit Value	l compounds							
Туре	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observat	IUNS	
VLEP	ITA	2	1					
Health - Derived no-eff	ect level - DNEL / [	MEI						
	Effects on consumers				Effects on workers			
Route of exposure	Effects on	Acute systemic	Chronic local	Chronic systemic		Acute systemic	Chronic local	Chronic systemic 1 mg/m3
Inhalation BUTYLGLYCOL ACET	Effects on consumers Acute local	Acute systemic	Chronic local		workers	systemic		systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value	Effects on consumers Acute local		Chronic local		workers		1	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value	Effects on consumers Acute local	Acute systemic	Chronic local	systemic	workers	systemic Remarks	1	systemic
Inhalation BUTYLGLYCOL ACETA Threshold Limit Value Type	Effects on consumers Acute local	Acute systemic		systemic STEL/15min	workers Acute local	systemic Remarks	1	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type	Effects on consumers Acute local	Acute systemic	ppm	systemic STEL/15min mg/m3	workers Acute local	systemic Remarks Observat	1	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW	Effects on consumers Acute local	Acute systemic TWA/8h mg/m3 133 130 65	ppm 20 19,5 10	systemic STEL/15min mg/m3 333 300 130 (C)	workers Acute local ppm 50 45 20 (C)	systemic Remarks Observat SKIN SKIN SKIN	/ ions 11	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK	Acute local  Acute local  Country  BGR CZE	Acute systemic TWA/8h mg/m3 133 130	ppm 20 19,5	systemic STEL/15min mg/m3 333 300	workers Acute local ppm 50 45	systemic Remarks Observat SKIN SKIN	/ ions	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV	Effects on consumers Acute local	Acute systemic Acute systemic TWA/8h mg/m3 133 130 65 66	ppm 20 19,5 10 10	systemic STEL/15min mg/m3 333 300 130 (C)	workers Acute local ppm 50 45 20 (C)	SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV VLA	Acute local Acute local Acute local Country BGR CZE DEU DEU DEU DNK	Acute systemic TWA/8h mg/m3 133 130 65 66 134	ppm 20 19,5 10 10 20	systemic STEL/15min mg/m3 333 300 130 (C) 132	workers Acute local ppm 50 45 20 (C) 20	systemic Remarks Observat SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP	Effects on consumers Acute local ACUTE Country BGR CZE DEU DEU DNK ESP	Acute systemic Acute systemic TWA/8h mg/m3 133 130 65 66 134 133	ppm 20 19,5 10 10 20 20 20	systemic STEL/15min mg/m3 333 300 130 (C) 132 333	workers Acute local ppm 50 45 20 (C) 20 50	systemic Remarks Observat SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP VLEP	Effects on consumers Acute local	Acute systemic TWA/8h mg/m3 133 130 65 66 134 133 66,5	ppm 20 19,5 10 10 20 20 10	systemic STEL/15min mg/m3 333 300 130 (C) 132 333 333 333	workers           Acute local           ppm           50           45           20 (C)           20           50           50           50           50           50           50	systemic Remarks Observat SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP VLEP TGG	Effects on consumers Acute local Acute local Country BGR CZE DEU DEU DEU DNK ESP FRA ITA	Acute systemic TWA/8h mg/m3 133 130 65 66 134 133 66,5 133	ppm 20 19,5 10 10 20 20 10	systemic STEL/15min mg/m3 333 300 130 (C) 132 333 333 333 333	workers           Acute local           ppm           50           45           20 (C)           20           50           50           50           50           50           50	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP VLEP TGG VLE	Effects on consumers Acute local Acute local Country BGR CZE DEU DEU DEU DEU DEU DEU ESP FRA ITA NLD	Acute systemic TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135	ppm 20 19,5 10 10 20 20 10 20	systemic STEL/15min mg/m3 333 300 130 (C) 132 333 333 333 333 333 333	workers Acute local ppm 50 45 20 (C) 20 50 50 50	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP VLEP TGG VLE NDS/NDSCh	Effects on consumers Acute local Acute local Country BGR CZE DEU DEU DEU DNK ESP FRA ITA NLD PRT	Acute systemic TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135 135 133	ppm 20 19,5 10 10 20 20 10 20	systemic STEL/15min mg/m3 333 300 130 (C) 132 333 333 333 333 333 333 333	workers Acute local ppm 50 45 20 (C) 20 50 50 50	systemic Remarks Observat SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV	Effects on consumers Acute local Acute local Country BGR CZE DEU DEU DEU DNK ESP FRA ITA NLD PRT POL	Acute systemic TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135 133 100	ppm 20 19,5 10 10 20 20 10 20 20 20 20	systemic STEL/15min mg/m3 333 300 130 (C) 132 333 333 333 333 333 333 333 333 333	workers Acute local Acute local ppm 50 45 20 (C) 20 50 50 50 50 50 50	systemic Remarks Observat SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
	Effects on consumers Acute local Acute local Country BGR CZE DEU DEU DEU DEU DEU DEU DEU DEU DIVK ESP FRA ITA ITA NLD PRT POL ROU	Acute systemic TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135 135 133 100 133	ppm 20 19,5 10 10 20 20 10 20 20 20 20 20 20 20 20 20	systemic STEL/15min mg/m3 333 300 130 (C) 132 333 333 333 333 333 333 333 333 333	workers Acute local Acute local ppm 50 45 20 (C) 20 50 50 50 50 50 50 50 50	Systemic Remarks Observat SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic
Inhalation BUTYLGLYCOL ACET/ Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV NGV/KGV	Acute local Acute local Acute local Country BGR CZE DEU DEU DEU DNK ESP FRA ITA NLD PRT POL ROU SWE	Acute systemic TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135 133 100 133 70	ppm 20 19,5 10 10 20 20 20 10 20 20 20 20 10 20 20 10	systemic STEL/15min mg/m3 333 300 130 (C) 132 333 333 333 333 333 333 333 333 333	workers Acute local Acute local ppm 50 45 20 (C) 20 50 50 50 50 50 50 50 50 50 50	systemic Remarks Observat SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	/ ions 11 Hinweis	systemic

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TLV-ACGIH		131	20					
Predicted no-effect concen	tration - PNEC							
Normal value in fresh wate	r			0,304	mg	/I		
Normal value in marine wa	ter			0,03	mg	/I		
Normal value for fresh wate	er sediment			2,03	mg	/I		
Normal value for marine wa	ater sediment			0,203	mg	/I		
Normal value for water, inte	ermittent release			0,56	mg	/I		
Normal value of STP micro	organisms			90	mg	/I		
Normal value for the food o	chain (secondary poison	ning)		60	mg	/kg		
Normal value for the terres	trial compartment			0,415	mg	/kg/d		
Health - Derived no-ef	fect level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	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 2-METHOXY-1-METHY		72 mg/kg bw/d	VND	102 mg/kg/d	102 mg/kg/d	27 mg/kg/d	VND	169 mg/kg/d
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	275	50	550	100	SKIN		
TLV	CZE	270	49,14	550	100,1	SKIN		
AGW	DEU	270	50	270	50			
MAK	DEU	270	50	270	50			
TLV	DNK	275	50			SKIN	E	
VLA	ESP	275	50	550	100	SKIN		
VLEP	FRA	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		

SD	TUR	275	50	550	100	SKIN	
WEL	GBR	274	50	548	100	SKIN	
OEL	EU	275	50	550	100	SKIN	
Predicted no-effect conce	entration - PNEC						
Normal value in fresh wat	er			0,635	m	g/I	
Normal value in marine w	ater			0,0635	m	g/I	
Normal value for fresh wa	ater sediment			3,29	m	g/kg	
Normal value for marine v	water sediment			0,329	m	g/I	
Normal value for water, ir	termittent release			6,35	m	a/l	

550

520

550

550

100

100

100

SKIN

SKIN

SKIN

SKIN

VLE

TLV

NDS/NDSCh

NGV/KGV

PRT

POL

ROU

SWE

275

260

275

275

50

50

50

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VND

VND

150 mg/m3

25 mg/kg

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Normal value of STP micro	organisms			100	mg	ı/I		
Normal value for the terrest	rial compartment			0,29	mg	/kg		
Health - Derived no-eff	ect level - DNEL / D	MEL						
	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, C

Туре	Country	Country TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
VLEP	ITA	100	20				1,2,3 trim	etilbenzene
OEL	EU	100	20				1,2,3 trim	etilbenzene
TLV-ACGIH			25				1,2,3 trim	etilbenzene
Health - Derived no-eff	ect 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

32 mg/m3

11 mg/kg

VND

VND

## Skin

Inhalation

#### BUTANOL Threshold Limit Value

Туре	Country	Country TWA/8h		STEL/15min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	100		150			
TLV	CZE	300	97,5	600	195		
AGW	DEU	310	100	310	100		
MAK	DEU	310	100	310	100		
TLV	DNK			150 (C)	50 (C)	SKIN	
VLA	ESP	61	20	154	50		
VLEP	FRA			150	50		
TGG	NLD			45			
NDS/NDSCh	POL	50		150		SKIN	
TLV	ROU	100	33	200	66		
NGV/KGV	SWE	45	15	90	30	SKIN	
WEL	GBR			154	50	SKIN	
TLV-ACGIH		61	20				
Predicted no-effect conce	entration - PNEC						
Normal value in fresh wa	ater			0,082	mç	//	
Normal value in marine v	water			0,0082	mç	//	

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Health - Derived no-effect Route of exposure Oral Inhalation Skin Phthalic anhydride with le Threshold Limit Value TLV-ACGIH N-BUTYL ACETATE Threshold Limit Value		o <b>f maleic anhydr</b> TWA/8h mg/m3 1	i <b>de</b>	0,93 mg/kg bw/d 1,62 mg/m3 0,83 mg/kg bw/d STEL/15min mg/m3	ppm	Remarks / Observati		6,6 mg/m3 1,67 mg/kg bw/d
Route of exposure Oral Inhalation Skin Phthalic anhydride with In Threshold Limit Value Type	ess than 0,05% o	TWA/8h mg/m3		bw/d 1,62 mg/m3 0,83 mg/kg bw/d STEL/15min	ppm			1,67 mg/kg
Route of exposure Oral Inhalation Skin Phthalic anhydride with In Threshold Limit Value	ess than 0,05% o	TWA/8h		bw/d 1,62 mg/m3 0,83 mg/kg bw/d STEL/15min	ppm			1,67 mg/kg
Route of exposure Oral Inhalation Skin Phthalic anhydride with I Threshold Limit Value	ess than 0,05% o		ide	bw/d 1,62 mg/m3 0,83 mg/kg bw/d				1,67 mg/kg
Route of exposure Dral Inhalation Skin Phthalic anhydride with I		of maleic anhydr	ide	bw/d 1,62 mg/m3 0,83 mg/kg				1,67 mg/kg
Route of exposure Dral nhalation				bw/d 1,62 mg/m3 0,83 mg/kg				1,67 mg/kg
Route of exposure Oral	Acute local			bw/d				6,6 mg/m3
Route of exposure								
	Acute local							
Health - Derived no-effect	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
		OMEL			3			
Normal value for the terrestrial		37		10	-	/kg/d		
Normal value for the food chair		ina)		41,33	mg			
Normal value of STP microorga				100	mg			
Normal value for water, intermi				0,018	mg	-		
Normal value for marine water				0,2	-	/kg/d		
Normal value for fresh water se	ediment			2	-	/kg/d		
Normal value in marine water				0,0018	mg			
reaction mass of isomers Predicted no-effect concentrati Normal value in fresh water		-ເວ,ວ-αι-tert-butyl	-4-nyaroxyph	0,018	re mg	//		
Skin	of: C7 0 alloce 2	5 mg/kg/d	1 hudrovush	0,8 mg/kg/d	10 mg/kg/d	10 mg/kg/d		1,7 mg/kg/d
Inhalation		17,5 mg/m3		2,8 mg/m3	10 mc/kc/d	70 mg/m3		11,9 mg/m3
Oral		5 mg/kg/d		0,8 mg/kg/d		70		11.0 / 1
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Soybean oil, epoxidized Health - Derived no-effect	t level - DNEL / I Effects on consumers				Effects on workers			
Inhalation			55 mg/m3	VND			310 mg/m3	VND
Oral			VND	3125 mg/kg		•		
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Health - Derived no-effect	Effects on	DMEL			Effects on			
	compartment			0,015	mg	/kg		
Normal value for the terrestrial	anisms			2476	mg	/I		
Normal value of STP microorga Normal value for the terrestrial	ttent release			2,25	mg	/I		
Normal value of STP microorga				0,0178	mg	/kg		
Normal value for marine water Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial	sediment				mg	-		

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Гуре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm	Observati		
LV	BGR	710		950				
ſLV	CZE	950	196,65	1200	248,4			
AGW	DEU	300	62	600 (C)	124 (C)			
ΓLV	DNK	710	150					
/LA	ESP	241	50	724	150			
/LEP	FRA	710	150	940	200			
/LEP	ITA	241	50	723	150			
TGG	NLD	150						
/LE	PRT	241	50	723	150			
NDS/NDSCh	POL	240		720				
ΓLV	ROU	241	50	723	150			
NGV/KGV	SWE	241	50	723 (C)	150 (C)			
WEL	GBR	724	150	966	200			
DEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effect concentrat	ion - PNEC							
Normal value in fresh water				0,18	mg	ı/I		
Normal value in marine water				0,01	mg	ı/I		
Normal value for fresh water s	ediment			0,98	mg	ı/kg		
Normal value for marine water	sediment			0,09	mg	ı/kg		
Normal value for water, interm	ittent release			0,36	mg	ı/I		
Normal value of STP microorg	anisms			35,6	mg	ı/I		
Normal value for the terrestrial	l compartment			0,09	mg	ı/kg		
Health - Derived no-effec	t level - DNEL / D Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
nhalation	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
HYDROM HYDROPHONE	SILICATE							
Threshold Limit Value	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observati	ons	
AGW	DEU	4	P		P	INHAL		
MAK	DEU	4				INHAL		
SODIUM HYDROXIDE Threshold Limit Value	Country	TWA/8h		STEL/15min		Remarks		
Threshold Limit Value	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks Observati		

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

#### Legend:

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

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

#### 8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

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

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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

#### ENVIRONMENTAL EXPOSURE CONTROLS

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

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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	
рН	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	1,04	
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

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Attacks various types of plastic materials.

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

#### 2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

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

BUTANOL

Attacks various types of plastic materials.

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.

#### BUTANOL

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

#### 10.4. Conditions to avoid

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

#### CYCLOHEXANONE

Avoid exposure to: sources of heat, naked flames.

BUTANOL

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.

### **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

2-METHOXY-1-METHYLETHYL ACETATE

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WORKERS: inhalation; contact with the skin.

#### 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).

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

#### 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:	

#### CYCLOHEXANONE

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

#### BUTYLGLYCOL ACETATE

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours): >2000 mg/kg >2000 mg/kg

> 20 mg/l

1100 mg/kg 794 - 3160 / Coniglio / Rabbit 1535 mg/kg Ratto / Rat 11 mg/l/4h Ratto / Rat (4h)

1500 mg/kg Coniglio / Rabbit 1880 mg/kg Ratto / Rat 0,4 mg/l/4h Ratto - Rat 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

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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 3492 mg/kg Ratto / Rat > 6193 mg/l/4h Ratto / Rat LD50 (Oral): LC50 (Inhalation vapours): BUTANOL LD50 (Dermal): 3400 mg/kg Rabbit LD50 (Oral): 2290 mg/kg Rat 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Oral): (figure used for calculation of the acute toxicity estimate of the mixture) 17,76 mg/l/4h Rat LC50 (Inhalation vapours): Soybean oil, epoxidized LD50 (Dermal): > 20 ml/kg Coniglio / Rabbit LD50 (Oral): > 5000 mg/kg Ratto / 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 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

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#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

May cause drowsiness or dizziness

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

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

#### **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity** 

Soybean oil, epoxidized	
LC50 - for Fish	900 mg/l/48h 48h - Leuciscus idus melanotus
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

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EC50 - for Crustacea EC50 - for Algae / Aguatic Plants

2-METHOXY-1-METHYLETHYL ACETATE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea

#### BUTANOL

LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

#### CYCLOHEXANONE

LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

#### N-BUTYL ACETATE

LC50 - for Fish EC50 - for Crustacea EC10 for Algae / Aquatic Plants Chronic NOEC for Crustacea

BUTYLGLYCOL ACETATE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

#### 12.2. Persistence and degradability

AROMATIC HYDROCARBONS, C9 Rapidly degradable 2-METHOXY-1-METHYLETHYL ACETATE Solubility in water > 10000 mg/l Rapidly degradable OECD GI 301F 83% 10 d BUTANOL Solubility in water Rapidly degradable CYCLOHEXANONE Solubility in water Rapidly degradable N-BUTYL ACETATE Solubility in water

> 3,2 mg/l/48h Daphnia magna

> 2,9 mg/l/72h Pseudokirchneriella subcapitata

134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203 > 500 mg/l/48h Daphnia magna > 1000 mg/l/72h Selenastrum capricornutum OECD 201 47,5 mg/l Oryzias latipes 14 gg OECD 204 100 mg/l Dapnia magna 21 gg OECD 202

1376 mg/l/96h Pimephales promelas 1328 mg/l/48h Daphnia magna 225 mg/l/96h 96h - Selenastrum capricornutum

527 mg/l/96h 527 - 732 / Pimephales promelas > 100 mg/l/48h Daphnia magna > 100 mg/l/72h Scenedesmus subspicatus

18 mg/l/96h Pimephales promelas 44 mg/l/48h Daphnia Magna 674,7 mg/l/72h Desmodesmus subspicatus 23 mg/l 21d/ Daphnia magna

> 20 mg/l/96h Fish 20-40 mg/kg (48h) 145 mg/l/24h Daphnia Magna (24h) 1570 mg/l/72h Scenedesmus subspicatus

78 mg/l

86 mg/l

5,3 mg/l

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Rapidly degradable BUTYLGLYCOL ACETATE		
Solubility in water	15000 mg/l	
Rapidly degradable	-	
12.3. Bioaccumulative potential		
2-METHOXY-1-METHYLETHYL ACETATE		
Partition coefficient: n-octanol/water	1,2	
BCF	100	
BUTANOL		
Partition coefficient: n-octanol/water	1	
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	4 54	
Partition coefficient: n-octanol/water	1,51	
12.4. Mobility in soil		
2-METHOXY-1-METHYLETHYL ACETATE		
Partition coefficient: soil/water	1,7	
BUTANOL		
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		

#### 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.

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#### 12.7. Other adverse effects

Information not available

### **SECTION 13.** Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

#### 14.1. UN number or ID number

ADR / RID, IMDG, IATA:	1210
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#### 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

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#### 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

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

#### 14.6. Special precautions for user

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ADR / RID: HIN - Kemler: 30 Limited Tunnel Quantities: 5 restriction L code: (D/E) Special provision: 163, 367 IMDG: EMS: F-E, S-D Limited Quantities: 5 1 IATA: Cargo: Maximum Packaging quantity: 220 instructions: 366 Т Packaging Pass .: Maximum quantity: 60 L 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	SODIUM HYDROXIDE
Point	75	Phthalic anhydride with less than 0,05% of maleic anhydride REACH Reg.: 01-2119457017-41
Point	75	BUTANOL REACH Reg.: 01- 2119484630-38
Point	75	CYCLOHEXANONE REACH Reg.: 01-2119453616-35-xxxx

#### 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%.

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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. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
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
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.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

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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.</name>

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
   Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP) 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP) 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)

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20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP) 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition

IFA GESTIS website

ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

For information on any exposure scenarios of the substances present in the mixture, contact Sericom Italia srl.