COMEC ITALIA SRL	Revision nr. 2
	Dated 15/02/2023
PLT 42 WHITE: 160,	Printed on 20/02/2023
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	Replaced revision:1 (Dated: 20/09/2021)

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

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

1.1. Product identifier

Product name PLT 42 WHITE: 160, UFI: FRH2-20D4-800U-8RDH

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

COMEC ITALIA SRL Full address Piazzale del lavoro 149 21044 Cavaria (VA) District and Country **ITALIA**

Tel. +39 0331 219516 Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet info@comec-italia.it Supplier: Edgardo Baggini

1.4. Emergency telephone number

For urgent inquiries refer to CENTRO ANTIVELENI OSPEDALE NIGUARDA MILANO Tel. 02/66101029 (24/24h) -

CENTRO ANTIVELENI POLICLINICO A.GEMELL ROMA Tel. 06/3054343 (24/24h) -

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3 H226 Flammable liquid and vapour. Eye irritation, category 2 Causes serious eye irritation. H319 Skin sensitization, category 1 H317 May cause an allergic skin reaction. Hazardous to the aquatic environment, chronic toxicity, Harmful to aquatic life with long lasting effects. H412

category 3

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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Hazard pictograms:





Signal words: Warning

Hazard statements:

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P370+P378 In case of fire: use chemical powder, CO2 or dry send to extinguish.

P261 Avoid breathing dust, gas or vapours.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P337+P313 If eye irritation persists: Get medical advice / attention.

Contains: Sodiumdicianoamide

2-(2H-benzotriazol-2-il)-p-cresolo

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

TITANIUM DIOXIDE

INDEX - $32,5 \le x < 35$

EC 236-675-5 CAS 13463-67-7

2-METHOXY-1-METHYLETHYL

ACETATE

INDEX 607-195-00-7 $10.5 \le x < 12$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9 CAS 108-65-6

REACH Reg. 01-2119475791-29-

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4-HYDROXY-4-METHYLPENTAN-

2-ONF

INDEX 603-016-00-1 $8.5 \le x < 10$

Flam. Liq. 3 H226, Eye Irrit. 2 H319

EC 204-626-7 CAS 123-42-2

REACH Reg. 01-2119473975-

21xxxx

BUTYLGLYCOL ACETATE

INDEX 607-038-00-2 $7 \le x < 8$

Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332 LD50 Oral: 1880 mg/kg, LD50 Dermal: 1500 mg/kg, STA Inhalation vapours:

EC 203-933-3

11 mg/l CAS 112-07-2

REACH Reg. 01-2119475112-

2-BUTOXYETHANOL

INDEX 603-014-00-0 5 ≤ x < 6 Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-905-0 LD50 Oral: 1200 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h

CAS 111-76-2

REACH Reg. 01-2119475108-36-

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Acrylate resin

INDEX $2.5 \le x < 3$ Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC CAS -

2-(2H-benzotriazol-2-il)-p-cresolo

INDEX - $1 \le x < 1,5$ Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1

EC 219-470-5 CAS 2440-22-4

REACH Reg. 01-2119583811-34-

Sodiumdicianoamide

INDEX - $1 \le x < 1,5$ Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Sens. 1 H317

EC 217-703-5 LD50 Oral: 500 mg/kg

CAS 1934-75-4

REACH Reg. 01-2120103918-55

N-BUTYL ACETATE

INDEX 607-025-00-1 Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 $0,14 \le x < 0,16$

EC 204-658-1 CAS 123-86-4

REACH Reg. 01-2119485493-29-

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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.

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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 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

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with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари
CZE	Česká Republika	2020r.) Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste
		lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes
		químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à
		exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w
		środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;
		Directive (EU) 2017/2398; Directive (EÚ) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

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Inhalation

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10 mg/m3

TITANIUM DIOXIDE Threshold Limit Value								
Гуре	Country	TWA/8h		STEL/15min		Remarks / Observation	s	
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	10				RESP		
TLV	DNK	6					Som Ti	
VLA	ESP	10						
VLEP	FRA	10						
NDS/NDSCh	POL	10				INHAL		
TLV	ROU	10		15				
NGV/KGV	SWE	5					Totaldam	nm
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		2,5				RESP		
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,127	mg/	1		
Normal value in marine water				1	mg/	1		
Normal value for fresh water se	ediment			1000	mg/	/kg		
Normal value for marine water	sediment			100	mg/	/kg		
Normal value for water, intermi	ittent release			0,61	mg/	/1		
Normal value of STP microorga	anisms			100	mg/	/1		
Normal value for the terrestrial	compartment			100	mg/	/kg		
Health - Derived no-effec		DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				700 mg/m3		,		,

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	3	
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	275	50	550	100	SKIN		
TLV	CZE	270	49,14	550	100,1	SKIN		
AGW	DEU	270	50	270	50			
MAK	DEU	270	50	270	50			
TLV	DNK	275	50			SKIN	E	
VLA	ESP	275	50	550	100	SKIN		
VLEP	FRA	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		
TGG	NLD	550						
VLE	PRT	275	50	550	100	SKIN		
NDS/NDSCh	POL	260		520		SKIN		

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TLV	ROU	275	50	550	100	SKIN		
NGV/KGV	SWE	275	50	550	100	SKIN		
ESD	TUR	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concer	ntration - PNEC							
Normal value in fresh wate	er			0,635	mç	g/l		
Normal value in marine wa	ater			0,0635	mç	g/l		
Normal value for fresh wat	er sediment			3,29	mg	g/kg		
Normal value for marine w	ater sediment			0,329	mç	g/l		
Normal value for water, int	ermittent release			6,35	mg	g/l		
Normal value of STP micro	oorganisms			100	mç	g/l		
Normal value for the terres	strial compartment			0,29	mg	g/kg		
Health - Derived no-ef	Effects on	DMEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral			VND	1 6 / ma/ka				
			VND	1,67 mg/kg	550 mg/m3		VND	275 mg/m3
Inhalation Skin 4-HYDROXY-4-METHY			33 mg/m3 VND	1,67 mg/kg 33 mg/m3 54,8 mg/kg	550 mg/m3		VND VND	
Oral Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type		TWA/8h	33 mg/m3	33 mg/m3	550 mg/m3	Remarks	VND	275 mg/m3 153,5 mg/k
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value	e	TWA/8h mg/m3	33 mg/m3	33 mg/m3 54,8 mg/kg	550 mg/m3	Remarks Observa	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type	e		33 mg/m3 VND	33 mg/m3 54,8 mg/kg STEL/15min			VND	
Inhalation Skin 4-HYDROXY-4-METH Threshold Limit Value Type	Country	mg/m3	33 mg/m3 VND ppm	33 mg/m3 54,8 mg/kg STEL/15min mg/m3	ppm		VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW	Country CZE	mg/m3 200	33 mg/m3 VND ppm 41,4	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300	ppm 62,1	Observa	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK	COUNTRY CZE DEU	mg/m3 200 96	33 mg/m3 VND ppm 41,4 20	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192	ppm 62,1 40	Observa SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV	COUNTRY CZE DEU DEU	mg/m3 200 96 96	33 mg/m3 VND ppm 41,4 20 20	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192	ppm 62,1 40	Observa SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value	CZE DEU DEU DNK	mg/m3 200 96 96 240	33 mg/m3 VND ppm 41,4 20 20 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192	ppm 62,1 40	Observa SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA	COUNTRY CZE DEU DEU DNK ESP	mg/m3 200 96 96 240 241	33 mg/m3 VND ppm 41,4 20 20 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192	ppm 62,1 40	Observa SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG	CZE DEU DEU DNK ESP FRA	mg/m3 200 96 96 240 241 240	33 mg/m3 VND ppm 41,4 20 20 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192	ppm 62,1 40	Observa SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh	CZE DEU DEU DNK ESP FRA NLD	mg/m3 200 96 96 240 241 240 120	33 mg/m3 VND ppm 41,4 20 20 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192	ppm 62,1 40	Observa SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV	COUNTRY CZE DEU DEU DNK ESP FRA NLD POL	mg/m3 200 96 96 240 241 240 120 240	33 mg/m3 VND ppm 41,4 20 20 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192	ppm 62,1 40 40	Observa SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV NGV/KGV	COUNTRY CZE DEU DEU DNK ESP FRA NLD POL ROU	mg/m3 200 96 96 240 241 240 120 240 150	33 mg/m3 VND ppm 41,4 20 20 50 50 50 32	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192	ppm 62,1 40 40	Observa SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV NGV/KGV	COUNTRY CZE DEU DEU DNK ESP FRA NLD POL ROU SWE	mg/m3 200 96 96 240 241 240 120 240 150 120	33 mg/m3 VND ppm 41,4 20 20 50 50 32 25	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192 250 240 (C)	ppm 62,1 40 40 53 50 (C)	Observa SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV NGV/KGV WEL TLV-ACGIH	COUNTRY CZE DEU DEU DNK ESP FRA NLD POL ROU SWE GBR	mg/m3 200 96 96 240 241 240 120 240 150 120 241	33 mg/m3 VND ppm 41,4 20 20 50 50 50 50 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192 250 240 (C)	ppm 62,1 40 40 53 50 (C)	Observa SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Ttype TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV NGV/KGV WEL TLV-ACGIH Predicted no-effect concer	COUNTRY CZE DEU DEU DNK ESP FRA NLD POL ROU SWE GBR	mg/m3 200 96 96 240 241 240 120 240 150 120 241	33 mg/m3 VND ppm 41,4 20 20 50 50 50 50 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192 250 240 (C)	ppm 62,1 40 40 53 50 (C)	SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV NGV/KGV WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate	COUNTRY CZE DEU DEU DNK ESP FRA NLD POL ROU SWE GBR	mg/m3 200 96 96 240 241 240 120 240 150 120 241	33 mg/m3 VND ppm 41,4 20 20 50 50 50 50 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192 250 240 (C) 362 2 0,2	ppm 62,1 40 40 53 50 (C) 75	SKIN SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV NGV/KGV WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa	COUNTRY CZE DEU DEU DNK ESP FRA NLD POL ROU SWE GBR	mg/m3 200 96 96 240 241 240 120 240 150 120 241	33 mg/m3 VND ppm 41,4 20 20 50 50 50 50 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192 250 240 (C) 362	53 50 (C) 75	SKIN SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV NGV/KGV WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value for fresh wat	CZE DEU DEU DNK ESP FRA NLD POL ROU SWE GBR	mg/m3 200 96 96 240 241 240 120 240 150 120 241	33 mg/m3 VND ppm 41,4 20 20 50 50 50 50 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192 250 240 (C) 362 2 0,2	ppm 62,1 40 40 40 53 50 (C) 75	SKIN SKIN SKIN	VND	
Inhalation Skin 4-HYDROXY-4-METHY Threshold Limit Value Type TLV AGW MAK TLV VLA VLEP	CZE DEU DEU DNK ESP FRA NLD POL ROU SWE GBR htration - PNEC er er sediment rater sediment	mg/m3 200 96 96 240 241 240 120 240 150 120 241	33 mg/m3 VND ppm 41,4 20 20 50 50 50 50 50 50	33 mg/m3 54,8 mg/kg STEL/15min mg/m3 300 192 192 250 240 (C) 362 2 0,2 9,06	ppm 62,1 40 40 40 53 50 (C) 75	SKIN SKIN SKIN SKIN SKIN	VND	

Revision nr. 2 **COMEC ITALIA SRL** Dated 15/02/2023 Printed on 20/02/2023 PLT 42 WHITE: 160, Page n. 8/26 Replaced revision:1 (Dated: 20/09/2021) 0,63 Normal value for the terrestrial compartment mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on workers consumers Acute local Route of exposure Acute systemic Chronic local Chronic Acute Chronic local Chronic Acute local systemic systemic svstemic Oral 3,4 mg/kg 11,8 mg/m3 Inhalation 66,4 mg/m3 Skin 3,4 mg/kg 9,4 mg/kg **BUTYLGLYCOL ACETATE Threshold Limit Value** STEL/15min TWA/8h Remarks / Туре Country Observations mg/m3 ma/m3 ppm ppm TI V SKIN **BGR** 133 20 333 50 TLV CZE 130 19,5 300 45 SKIN AGW DEU 65 10 130 (C) 20 (C) SKIN 10 Hinweis MAK DEU 66 132 20 SKIN TLV DNK 134 20 SKIN Ε SKIN VLA ESP 133 20 333 50 VI FP 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 ROU TLV 133 333 SKIN 20 50 NGV/KGV **SWE** 70 10 333 50 SKIN ESD TUR 133 20 333 50 SKIN WEL GBR 133 20 332 50 SKIN OEL 133 20 333 50 SKIN EU 131 20 TLV-ACGIH 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 0.203 Normal value for marine water sediment 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 mg/kg/d 0,415 Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic Acute local systemic systemic systemic Oral VND 36 mg/kg/d VND 4,3 mg/kg/d

200 mg/m3

Inhalation

Skin

VND

VND

80 mg/m3

102 mg/kg/d

333 mg/m3

102 mg/kg/d

VND

VND

133 mg/m3

169 mg/kg/d

773 mg/m3

27 mg/kg/d

499 mg/m3

72 mg/kg bw/d

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Vinyl resin Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	10				RESP

Туре	Country	TWA/8h		STEL/15min		Remarks / Observation	s
		mg/m3	ppm	mg/m3	ppm	Observation	3
TLV	BGR	98	20	246	50	SKIN	
TLV	CZE	100	20,4	200	40,8	SKIN	
AGW	DEU	49	10	98 (C)	20 (C)	SKIN	
MAK	DEU	49	10	98	20	SKIN	Hinweis
TLV	DNK	98	20			SKIN	E
VLA	ESP	98	20	245	50	SKIN	
VLEP	FRA	49	10	246	50	SKIN	
VLEP	ITA	98	20	246	50	SKIN	
TGG	NLD	100		246		SKIN	
VLE	PRT	98	20	246	50	SKIN	
NDS/NDSCh	POL	98		200		SKIN	
TLV	ROU	98	20	246	50	SKIN	
NGV/KGV	SWE	50	10	246	50	SKIN	
ESD	TUR	98	20	246	50	SKIN	
WEL	GBR	123	25	246	50	SKIN	
OEL	EU	98	20	246	50	SKIN	
TLV-ACGIH		97	20				
Predicted no-effect cond	centration - PNEC						
Normal value in fresh w	ater			8,8	mg	/I	
Normal value in marine	water			0,88	mg	/I	
Normal value for fresh v	vater sediment			34,6	mg	/kg	
Normal value for marine	water sediment			3,46	mg	/kg	
Normal value of STP mi	croorganisms			463	mg	/I	
Normal value for the ter	restrial compartment			2,8	mg	/ka	

Health - Derived no-effect	ct level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral		13,4 mg/kg		3,2 mg/kg				
Inhalation	123 mg/m3	123 mg/m3		49 mg/m3	50 ppm	135 ppm		20 ppm
Skin		44,5 mg/kg		38 mg/kg		89 mg/kg		75 mg/kg

2-(2H-benzotriazol-2-il)-p-cresolo
Predicted no-effect concentration - PNEC

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Normal value in fresh water				0,00026	mg	1/ I		
Normal value in marine wate	er			0,000026	mg	ı/l		
Normal value for fresh water	sediment			0,136	mg	ı/kg		
Normal value for marine wat	ter sediment			0,0136	mg	ı/kg		
Normal value for water, inter	mittent release			1	mg	ı/l		
Normal value of STP microo	rganisms			1	mg			
Normal value for the terrestri	ial compartment			11	mg	J/kg		
Health - Derived no-effe	ect level - DNEL / D	OMEL			Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,2 mg/kg				•
Inhalation							VND	1 mg/m3
Skin			VND	1,2 mg/kg			VND	2,5 mg/kg
04								
Soybean oil, epoxidized Health - Derived no-effe	a ect level - DNEL / D	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
touto of oxpooding						Systerric		Systemic
		5 mg/kg/d		0,8 mg/kg/d				
Oral		5 mg/kg/d 17,5 mg/m3		0,8 mg/kg/d 2,8 mg/m3		70 mg/m3		11,9 mg/m3
Oral Inhalation Skin N-BUTYL ACETATE					10 mg/kg/d	70 mg/m3 10 mg/kg/		_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value	Country	17,5 mg/m3		2,8 mg/m3	10 mg/kg/d	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value	Country	17,5 mg/m3 5 mg/kg/d	ppm	2,8 mg/m3 0,8 mg/kg/d	10 mg/kg/d	10 mg/kg/	d	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type	Country	17,5 mg/m3 5 mg/kg/d TWA/8h	ppm	2,8 mg/m3 0,8 mg/kg/d STEL/15min		10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type		17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3	ppm 196,65	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3		10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV	BGR	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710		2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950	ppm	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV	BGR CZE DEU DNK	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950	196,65	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200	ppm 248,4	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLA	BGR CZE DEU DNK ESP	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300	196,65 62 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C)	ppm 248,4 124 (C)	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLA	BGR CZE DEU DNK ESP FRA	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710	196,65 62 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C)	ppm 248,4 124 (C)	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP	BGR CZE DEU DNK ESP FRA	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710	196,65 62 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C)	ppm 248,4 124 (C)	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP VLEP	BGR CZE DEU DNK ESP FRA ITA NLD	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150	196,65 62 150 50 150	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723	ppm 248,4 124 (C) 150 200 150	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLEP VLEP TGG	BGR CZE DEU DNK ESP FRA ITA NLD PRT	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241	196,65 62 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723	ppm 248,4 124 (C) 150 200	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV TLV VLA VLEP VLEP TGG VLE NDS/NDSCh	BGR CZE DEU DNK ESP FRA ITA NLD PRT POL	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241 240	196,65 62 150 50 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723 723 720	ppm 248,4 124 (C) 150 200 150	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP TGG VLE NDS/NDSCh TLV	BGR CZE DEU DNK ESP FRA ITA NLD PRT POL ROU	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241 240 241	196,65 62 150 50 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723 723 720 723	ppm 248,4 124 (C) 150 200 150	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV TLV AGW TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV NGV/KGV	BGR CZE DEU DNK ESP FRA ITA NLD PRT POL ROU SWE	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241 240 241	196,65 62 150 50 150 50 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723 723 720 723 723 (C)	ppm 248,4 124 (C) 150 200 150 150 150 150 150	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV NGV/KGV WEL	BGR CZE DEU DNK ESP FRA ITA NLD PRT POL ROU SWE GBR	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241 240 241 241 241 724	196,65 62 150 50 150 50 50 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723 723 720 723 723 (C) 966	ppm 248,4 124 (C) 150 200 150 150 150 200 200	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV NGV/KGV WEL	BGR CZE DEU DNK ESP FRA ITA NLD PRT POL ROU SWE	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241 240 241	196,65 62 150 50 150 50 50 50 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723 723 720 723 723 (C)	ppm 248,4 124 (C) 150 200 150 150 150 150 150 150	10 mg/kg/	d rks /	11,9 mg/m3 1,7 mg/kg/d
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV NGV/KGV WEL DEL TLV-ACGIH	BGR CZE DEU DNK ESP FRA ITA NLD PRT POL ROU SWE GBR EU	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241 240 241 241 241 724	196,65 62 150 50 150 50 50 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723 723 720 723 723 (C) 966	ppm 248,4 124 (C) 150 200 150 150 150 200 200	10 mg/kg/	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLEP VLEP TGG VLE NDS/NDSCh TLV NGV/KGV WEL OEL TLV-ACGIH Predicted no-effect concentr	BGR CZE DEU DNK ESP FRA ITA NLD PRT POL ROU SWE GBR EU	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241 240 241 241 241 724	196,65 62 150 50 150 50 50 50 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723 723 720 723 723 (C) 966 723	ppm 248,4 124 (C) 150 200 150 150 150 (C) 200 150 150	Remai Obser	d rks /	_
Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV NGV/KGV WEL OEL TLV-ACGIH Predicted no-effect concentr Normal value in fresh water	BGR CZE DEU DNK ESP FRA ITA NLD PRT POL ROU SWE GBR EU	17,5 mg/m3 5 mg/kg/d TWA/8h mg/m3 710 950 300 710 241 710 241 150 241 240 241 241 241 724	196,65 62 150 50 150 50 50 50 150 50	2,8 mg/m3 0,8 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723 723 720 723 723 (C) 966	ppm 248,4 124 (C) 150 200 150 150 150 150 150 150	Remai Obser	d rks /	_

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			•				e n. 11/26	1.00/25/55
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Normal value for fresh water s	ediment			0,98	mo	ı/kg		
Normal value for marine water				0,09		ı/kg ı/kg		
Normal value for water, interm				0,36	mç			
Normal value of STP microorg				35,6	mç			
Normal value for the terrestria Health - Derived no-effec		MFI		0,09	mç	ı/kg		
nearth - Derived no-chec			Effects on					
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Inhalation	859,7 mg/m3	895,7 mg/m3	102,34 mg/m3	systemic 102,34 mg/m3	960 mg/m3	systemic 960 mg/m3	480 mg/m3	systemic 480 mg/m3
BUTANOL								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	1	
		mg/m3	nnm	mg/m3	nnm	Observat		
TLV	BGR	100	ppm	150	ppm			
TLV	CZE	300	97,5	600	195			
AGW	DEU	310	100	310	100			
MAK	DEU	310	100	310	100			
TLV	DNK	310	100	150 (C)	50 (C)	SKIN		
VLA	ESP	61	20	150 (C)	50 (C)	SMIN		
VLEP	FRA	U I	20	150	50			
TGG	NLD			45				
NDS/NDSCh	POL	50		150		SKIN		
TLV	ROU	100	33	200	66	OM		
NGV/KGV	SWE	45	15	90	30	SKIN		
WEL	GBR	· -		154	50	SKIN		
TLV-ACGIH		61	20	- '				
Predicted no-effect concentrat	tion - PNEC							
Normal value in fresh water				0,082	mç	ı/I		
Normal value in marine water				0,0082	mç			
Normal value for fresh water s	sediment			0,178		ı/kg		
Normal value for marine water				0,0178		ı/kg		
Normal value for water, interm	nittent release			2,25	mç			
Normal value of STP microorg				2476	mç			
Normal value for the terrestria				0,015		ı/kg		
Health - Derived no-effec	ct level - DNEL / D Effects on	MEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral			VND	systemic 3125 mg/kg		systemic		systemic
Inhalation			55 mg/m3	VND			310 mg/m3	VND
				·				_
HYDROM HYDROPHONE Threshold Limit Value	SILICATE							
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		

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		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	4				INHAL
MAK	DEU	4				INHAL

Legend:

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

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

8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

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

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information

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Appearance not available Colour not available Odour not available Melting point / freezing point not available Initial boiling point not available Flammability not available not available Lower explosive limit Upper explosive limit not available 23 ≤ T ≤ 60 Flash point Auto-ignition temperature not available Decomposition temperature not available рΗ not available not available Kinematic viscosity Solubility not available 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.

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.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Decomposes at temperatures above 90°C/194°F.

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2-BUTOXYETHANOL	
Decomposes under the effect of heat.	
DPnB	
Do not put in contact with free oxygen	
N-BUTYL ACETATE	
Decomposes on contact with: water.	
10.2. Chemical stability	
The product is stable in normal conditions of use and storage.	
DPnB	
Stable product under recommended storage and use conditions	
10.3. Possibility of hazardous reactions	
The vapours may also form explosive mixtures with the air.	
2-METHOXY-1-METHYLETHYL ACETATE	
May react violently with: oxidising substances,strong acids,alkaline metals.	
4-HYDROXY-4-METHYLPENTAN-2-ONE	
Risk of explosion on contact with: air,sources of heat.May react dangerously with: alkaline metals,amines,oxidisin	ng agents,acids.
2-BUTOXYETHANOL	
May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.	
DPnB	
Avoid oxygen infiltration	
N-BUTYL ACETATE	
Risk of explosion on contact with: strong oxidising agents.May react dangerously with: alkaline hydroxides,pmixtures with: air.	potassium tert-butoxide.Forms explosive
10.4. Conditions to avoid	
Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.	

4-HYDROXY-4-METHYLPENTAN-2-ONE

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

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

DPnB

Avoid oxygen infiltration; avoid heat, flames, sparks

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.

DPnB

Avoid oxygen infiltration

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.

2-BUTOXYETHANOL

May develop: hydrogen.

DPnB

In the event of a fire, it can release carbon monoxide

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.

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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 WORKERS: inhalation: contact with the skin.

4-HYDROXY-4-METHYLPENTAN-2-ONE 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).

4-HYDROXY-4-METHYLPENTAN-2-ONE

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

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

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ATE (Inhalation - vapours) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

TITANIUM DIOXIDE

LD50 (Oral): > 5000 mg/l Ratto/Rat LC50 (Inhalation mists/powders): > 6,82 mg/l Ratto/Rat

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

 LD50 (Dermal):
 > 1875 mg/kg Ratto / Rat

 LD50 (Oral):
 3002 mg/kg Rat

 LC50 (Inhalation vapours):
 > 7,6 mg/l Ratto / Rat

BUTYLGLYCOL ACETATE

LD50 (Dermal): 1500 mg/kg Coniglio / Rabbit LD50 (Oral): 1880 mg/kg Ratto / Rat LC50 (Inhalation vapours): 0,4 mg/l/4h Ratto - Rat

STA (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-BUTOXYETHANOL

LD50 (Oral): 1200 mg/kg Guinea pig

LC50 (Inhalation vapours): 3 mg/l/4h Rat

DPnB

LD50 (Dermal): 5330 mg/kg Coniglio - Rabbit LD50 (Oral): 3700 mg/kg Ratto - Rat

2-(2H-benzotriazol-2-il)-p-cresolo

LD50 (Dermal): > 2000 mg/kg ratto (OECD - linea guida 402) Analogismo: valutazione

derivante da prodotti chimicamente simili. LD50 (Oral): > 10000 mg/kg (OECD-Linea guida 423)

LC50 (Inhalation mists/powders): > 0,59 mg/l 4 h ratto (OCSE - linea guida 403) concentrazione a piu' alta

testabilita'

Soybean oil, epoxidized

 LD50 (Dermal):
 > 20 ml/kg Coniglio / Rabbit

 LD50 (Oral):
 > 5000 mg/kg Ratto / Rat

Sodiumdicianoamide

LD50 (Oral): 500 mg/kg Ratto

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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

DPnB

LC50 - for Fish 841 mg/l/96h poecilia reticulata
EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna

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

2-BUTOXYETHANOL

LC50 - for Fish 1474 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 1550 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 1840 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish > 100 mg/l 21 d
Chronic NOEC for Crustacea 100 mg/l 21 d

4-HYDROXY-4-METHYLPENTAN-2-ONE

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LC50 - for Fish > 100 mg/l/96h Oryzias latipes > 1000 mg/l/48h Daphnia magna EC50 - for Crustacea

< 1000 mg/l/72h Pseudokirchneriella subcapitata EC50 - for Algae / Aquatic Plants

N-BUTYL ACETATE

LC50 - for Fish 18 mg/l/96h Pimephales promelas 44 mg/l/48h Daphnia Magna EC50 - for Crustacea

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) 145 mg/l/24h Daphnia Magna (24h) EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 1570 mg/l/72h Scenedesmus subspicatus

2-(2H-benzotriazol-2-il)-p-cresolo

> 0,17 mg/l/96h Oncorhynchus mykiss (OECD - linea guida 203, semistatico) LC50 - for Fish EC50 - for Crustacea > 1000 mg/l/48h CE50 (24 h), Daphnia magna (OECD - linea guida 202, parte

1. statico)

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Crustacea 0,013 mg/l Daphnia magna

Chronic NOEC for Algae / Aquatic Plants 33 mg/l/72h (biomassa) Desmodesmus subspicatus (OECD - linea guida 201)

12.2. Persistence and degradability

2-(2H-benzotriazol-2-il)-p-cresolo Not readily biodegradable.

DPnB

Entirely degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable OECD GI 301F 83% 10 d 2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable 4-HYDROXY-4-METHYLPENTAN-2-ONE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable AFNOR T 90-312 70% 10 d N-BUTYL ACETATE

Solubility in water 5,3 mg/l

Rapidly degradable

BUTYLGLYCOL ACETATE

15000 mg/l Solubility in water

Rapidly degradable

2-(2H-benzotriazol-2-il)-p-cresolo

0,173 mg/l @20°C Solubility in water

NOT rapidly degradable

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12.3. Bioaccumulative potential

2-(2H-benzotriazol-2-il)-p-cresolo

Assessment of bioaccumulation potential: The product can accumulate in the body. Bioaccumulative potential: Bioconcentration factor: 548 - 895 (70 d), Cyprinus carpio (OECD - guideline 305 C) The product has not been tested. The statement has been derived from products of a similar structure and composition. Bioconcentration factor: 44 to 220 (56 d), Cyprinus carpio (OECD - guideline 305 C).

DPnB

Partition coefficient: n-octanol/water 1,523

2-METHOXY-1-METHYLETHYL ACETATE

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

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

4-HYDROXY-4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water -0,09

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 BCF 15.3

BUTYLGLYCOL ACETATE

Partition coefficient: n-octanol/water 1,51

2-(2H-benzotriazol-2-il)-p-cresolo

Partition coefficient: n-octanol/water 4,2 mg/l @25°C

BCF 548 548 - 895 / Cyprinus carpio - 70d

12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

N-BUTYL ACETATE

Partition coefficient: soil/water < 3

2-(2H-benzotriazol-2-iI)-p-cresolo

Partition coefficient: soil/water 3,71

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1210

14.2. UN proper shipping name

ADR / RID: PRINTING INK IMDG: PRINTING INK PRINTING INK PRINTING INK

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:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

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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. 3 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2Eye irritation, category 2Skin Irrit. 2Skin irritation, category 2Skin Sens. 1Skin sensitization, category 1Skin Sens. 1BSkin sensitization, category 1B

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H226 Flammable liquid and vapour.

H331 Toxic if inhaled.
H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

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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).

PEL: Predicted exposure level

TLV: Threshold Limit Value

GENERAL BIBLIOGRAPHY

PEC: Predicted environmental Concentration

TWA: Time-weighted average exposure limit

PNEC: Predicted no effect concentration REACH: Regulation (EC) 1907/2006

RID: Regulation concerning the international transport of dangerous goods by train

TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

- 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 (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)

- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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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. Changes to previous review: The following sections were modified: 01 / 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.