

PU TOP RED PASTE

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Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 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 PU TOP RED PASTE

UFI: WA65-000T-600S-MATA

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Epoxy formulation

Identified Uses Industrial Professional Consumer Colour paste - - - - -

1.3. Details of the supplier of the safety data sheet

NameIMPER ITALIA SRLFull addressVia Rita Atria, 9District and Country10079 - Mappano (TO)

Tel. +39 011 2225 499

e-mail address of the competent person responsible for the Safety Data Sheet

safety@imper.it

1.4. Emergency telephone number

For urgent inquiries refer to United Kingdom

999/112 emergency

111 non-emergency medical number

NHS 111 (England) NHS 24 (Scotland) NHS Direct (Wales)

Ireland

National Poisons Information Centre, Beaumont Hospital, PO Box 1297, Beaumont

Road, Dublin 9 018092166 018092566

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.

Specific target organ toxicity - repeated exposure, H373 May cause damage to organs through prolonged or

category 2 repeated exposure.

Eye irritation, category 2 H319 Causes serious eye irritation.
Skin irritation, category 2 H315 Causes skin irritation.

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SECTION 2. Hazards identification .../>>

2.2. Label elements

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

Hazard pictograms:







Signal words: Warning

Hazard statements:

H226 Flammable liquid and vapour.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation. H315 Causes skin irritation.

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 carbon dioxide, sand, foam or powder to extinguish.

P337+P313 If eye irritation persists: Get medical advice / attention.

P264 Wash thoroughly after handling.

Contains: REACTION MASS OF ETHYLBENZENE AND XYLENE

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

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

REACTION MASS OF ETHYLBENZENE AND XYLENE

CAS 10,5 ≤ x < 12 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

EC INDEX

REACH Reg. 01-2119488216-32; 01-2119539452-40

2-METHOXY-1-METHYLETHYL ACETATE

905-588-0

CAS 108-65-6 4 ≤ x < 4,5 Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9 INDEX 607-195-00-7 REACH Reg. 01-2119475791-29

N-BUTYL ACETATE

CAS 123-86-4 2 ≤ x < 2,5 Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1 INDEX 607-025-00-1 REACH Reg. 01-2119485493-29

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SECTION 3. Composition/information on ingredients

XYLENE

CAS 1330-20-7 $0.05 \le x < 0.1$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

> STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the

CLP Regulation: C

ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

01-2119488216-32

 $0 \le x < 0.05$ Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note

according to Annex VI to the CLP Regulation: B

Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 10%, Eye Dam. 1 H318: ≥

25%, Eye Irrit. 2 H319: ≥ 10%

INDEX 015-011-00-6 REACH Reg. 01-2119485924-24

ETHYLBENZENE

 $0 \le x < 0.05$ Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, CAS

Aquatic Chronic 3 H412

LC50 Inhalation vapours: 17,2 mg/l/4h

601-023-00-4 REACH Reg. 01-2119489370-35

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. Get medical advice/attention 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 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).

@EPY 11.2.0 - SDS 1004.14

FΝ

EC 215-535-7

INDEX 601-022-00-9 REACH Rea.

PHOSPHORIC ACID

CAS 7664-38-2

EC 231-633-2

100-41-4

EC 202-849-4

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

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
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
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH
		HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των
		οδηγιών 2017/2398/EE, 2019/130/EE και 2019/983/EE «για την τροποποίηση της οδηγίας
		2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με
		την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama
		na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 "cheminių medžiagų profesinio poveikio
		ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai" patvirtinimo



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SECTION 8. Exposure controls/personal protection/>>

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 si completarea hotărârii guvernului nr. 1.093/2006
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

		REA	CTION	MASS OF E	THYLBENZE	NE AND	XYLENE			
hreshold Limit Val	ue									
Type	Country	TWA/8h		:	STEL/15min		Remarl	ks / Observa	ations	
		mg/m3	ppm	ı	mg/m3	ppm				
OEL I	EU	221	50		442	100				
Predicted no-effect	concentra	tion - PNEC								
Normal value in fro	esh water							0,327	mg/l	
Normal value in m	arine wate	r						0,327	mg/l	
Normal value for f	resh water	sediment						12,46	mg/kg	
Normal value for r	narine wat	er sediment						12,46	mg/kg	
Normal value of S	TP microoi	rganisms						6,58	mg/l	
Normal value for t	he terrestri	al compartment						2,31	mg/kg	
Health - Derived no-	effect leve	el - DNEL / DMEL								
	Effe	cts on consumers				Effe	ects on worker	orkers		
Route of exposure	e Acut	te Acute		Chronic	Chronic	Acı	ute	Acute	Chronic	Chronic
	loca	l systemic		local	systemic	loca	al	systemic	local	systemic
Inhalation						442	2	442	221	221
						mg	/m3	mg/m3	mg/m3	mg/m3
Skin									NPI	212
										mg/kg
										bw/d

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2-METHOXY-1-METHYLETHYL ACETATE **Threshold Limit Value** TWA/8h Remarks / Observations STEL/15min Type Country mg/m3 mg/m3 ppm ppm 50 50 AGW DEU 270 270 MAK DEU 270 50 270 50 ESP 275 50 550 100 SKIN VLA VLEP FRA 275 50 550 100 SKIN HTP FIN 50 550 SKIN 270 100 TLV GRC 275 50 550 100 GVI/KGVI HRV 275 50 550 100 SKIN **VLEP** ITA 275 50 550 100 SKIN LTU 250 50 400 75 SKIN RD TGG NLD 550 50 550 100 SKIN **VLE** PRT 275 NDS/NDSCh POL 260 520 SKIN 275 50 550 100 SKIN ROU TLV NPEL SVK 275 50 550 100 SKIN 274 WEL **GBR** 50 548 100 SKIN SKIN OEL EU 275 50 550 100 Predicted no-effect concentration - PNEC 0,635 Normal value in fresh water mg/l 0,064 Normal value in marine water mg/l 3,29 Normal value for fresh water sediment mg/kg 0,329 Normal value for marine water sediment mg/kg Normal value of STP microorganisms 100 mg/l Normal value for the terrestrial compartment 0,29 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Acute Acute Chronic Chronic Acute Chronic Chronic systemic local systemic local local systemic systemic local Inhalation 550 275 mg/m3 mg/m3 796 Skin

mg/kg bw/d



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				N-BI	JTYL ACETA	TE			
Threshold Limit \	/alue								
Type	Country	TWA/8h			STEL/15min		Remarks / Observa	ations	
		mg/m3	ppm		mg/m3	ppm			
AGW	DEU	300	62		600 (C)	124 (C)			
VLA	ESP	241	50		724	150			
VLEP	FRA	710	150		940	200			
TLV	GRC	710	150		950	200			
GVI/KGVI	HRV	241	50		723	150			
VLEP	ITA	241	50		723	150			
RD	LTU	241	50		723	150			
TGG	NLD	150							
VLE	PRT	241	50		723	150			
NDS/NDSCh	POL	240			720				
TLV	ROU	241	50		723	150			
NPEL	SVK	241	50		723	150			
WEL	GBR	724	150		966	200			
OEL	EU	241	50		723	150			
TLV-ACGIH			50			150			
Predicted no-effe	t concentra	tion - PNEC							
Normal value ir	n fresh water						0,18	mg/l	
Normal value ir	n marine wate	er					0,018	mg/l	
Normal value for	or fresh wate	r sediment					0,981	mg/kg	
Normal value for	or marine wa	ter sediment					0,098	mg/kg	
Normal value o							35,6	mg/l	
Normal value for	or the terresti	rial compartment					0,09	mg/kg	
lealth - Derived i	no-effect lev	el - DNEL / DMEL	_						
	Effe	ects on consumers				Effec	ts on workers		
Route of expos	ure Acu	ite Acute		Chronic	Chronic	Acute	e Acute	Chronic	Chronic
•	loca	al systemic	;	local	systemi	c local	systemic	local	systemic
Inhalation		· ·			,	600	600	300	300
						mg/n	n3 mg/m3	mg/m3	mg/m3
Skin						NPI	11	NPI	11
							mg/kg		mg/kg
							bw/d		bw/d



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Mg/m3 ppm			
Mg/m3 ppm			
AGW DEU 440 100 880 200 S MAK DEU 440 100 880 200 S MAK DEU 440 100 880 200 S VLA ESP 221 50 442 100 S VLEP FRA 221 50 442 100 S HTP FIN 220 50 440 100 S TLV GRC 435 100 650 150 GVI/KGVI HRV 221 50 442 100 S RD LTU 221 50 442 100 S NDS/NDSCh POL 100 442 100 S NDS/NDSCh POL 100 200 S NPEL SVK 221 50 442 100 S NPEL SVK 221 50 442 100 S NPEL GBR 220 50 442 100 S TLV ROU 221 50 442 100 S NPEL GBR 220 50 442 100 S TLV ROU 521 50 442 100 S NPEL GBR 220 50 442 100 S TLV-ACGIH 434 100 651 150 Tedicted no-effect concentration - PNEC Normal value in fresh water Normal value for fresh water sediment Normal value for fresh water sediment Normal value for fresh water sediment Normal value for the terrestrial compartment Lealth - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local	Remarks / Observa	ations	
MAK DEU 440 100 880 200 5 VLA ESP 221 50 442 100 5 VLEP FRA 221 50 442 100 5 HTP FIN 220 50 440 100 5 TLV GRC 435 100 650 150 GVI/KGVI HRV 221 50 442 100 5 RD LTU 221 50 442 100 5 RD LTV ROU 221 50 442 100 5 RD LTU ACGIH 434 100 651 150 Predicted no-effect concentration - PNEC Normal value in fresh water Normal value for fresh water sediment Normal value for fresh water sediment Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local			
VLA ESP 221 50 442 100 S VLEP FRA 221 50 442 100 S HTP FIN 220 50 440 100 S TLV GRC 435 100 650 150 GVI/KGVI HRV 221 50 442 100 S VLEP ITA 221 50 442 100 S RD LTU 221 50 442 100 S TGG NLD 210 442 100 S VLE PRT 221 50 442 100 S TLV ROU 221 50 442 100 S NPEL SVK 221 50 442 100 S VEL GBR 220 50 441 100 S OEL EU 221 50 442	SKIN		
VLEP FRA 221 50 442 100 S HTP FIN 220 50 440 100 S TLV GRC 435 100 650 150 GV/KGVI HRV 221 50 442 100 S VLEP ITA 221 50 442 100 S RD LTU 221 50 442 100 S TGG NLD 210 442 100 S VLE PRT 221 50 442 100 S NDS/NDSCh POL 100 200 S S M42 100 S NPEL SVK 221 50 442 100 S S WEL GBR 220 50 441 100 S T TLV-ACGIH 434 100 651 150 T T T T	SKIN		
HTP	SKIN		
TLV GRC 435 100 650 150 GVI/KGVI HRV 221 50 442 100 5 VLEP ITA 221 50 442 100 5 RD LTU 221 50 442 100 5 TGG NLD 210 442 100 5 NDS/NDSCh POL 100 200 5 TLV ROU 221 50 442 100 5 NPEL SVK 221 50 442 100 5 NPEL SVK 221 50 442 100 5 NPEL GBR 220 50 442 100 5 TLV-ACGIH 434 100 651 150 Predicted no-effect concentration - PNEC Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local	SKIN		
GVI/KGVI	SKIN		
VLEP			
RD	SKIN		
TGG	SKIN		
VLE PRT 221 50 442 100 S NDS/NDSCh POL 100 200 S TLV ROU 221 50 442 100 S NPEL SVK 221 50 441 100 S WEL GBR 220 50 441 100 S OEL EU 221 50 442 100 S TLV-ACGIH 434 100 651 150 Predicted no-effect concentration - PNEC Normal value in fresh water Normal value for fresh water sediment Normal value for marine water sediment Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Chronic Chronic Acute Inhalation 442 442 442 442	SKIN		
NDS/NDSCh	SKIN		
TLV	SKIN		
NPEL	SKIN		
WEL GBR 220 50 441 100 5 OEL EU 221 50 442 100 5 TLV-ACGIH 434 100 651 150 Predicted no-effect concentration - PNEC Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute Inhalation Legisland ST	SKIN		
OEL EU 221 50 442 100 S TLV-ACGIH 434 100 651 150 Predicted no-effect concentration - PNEC Normal value in fresh water Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on Route of exposure Acute Chronic Chronic Acute Inhalation Iocal systemic Iocal 442	SKIN		
TLV-ACGIH 434 100 651 150 Predicted no-effect concentration - PNEC Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute Inhalation Inhalation Inhalati	SKIN		
Predicted no-effect concentration - PNEC Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local Inhalation 442	SKIN		
Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local Inhalation 442			
Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local Inhalation 442			
Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms Normal value for the terrestrial compartment dealth - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local Inhalation 442	0,327	mg/l	
Normal value for marine water sediment Normal value of STP microorganisms Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local Inhalation 442	0,327	mg/l	
Normal value of STP microorganisms Normal value for the terrestrial compartment Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local Inhalation 442	12,46	mg/kg	
Normal value for the terrestrial compartment lealth - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on Route of exposure Acute Acute Chronic Chronic Acute Acute Iocal Systemic Iocal Systemic Iocal Inhalation 442	12,46	mg/kg	
Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local Inhalation Health - Derived no-effect level - DNEL / DMEL Effects on Chronic Chronic Acute Acute Ocal Systemic Ocal Systemic Ocal	6,58	mg/l	
Effects on consumers Route of exposure Acute Acute Acute Chronic Chronic Acute Iocal Inhalation Effects on consumers Chronic Chronic Acute 442	2,31	mg/kg	
Effects on consumers Route of exposure Acute Acute Acute Chronic Chronic Acute Iocal Inhalation Effects on consumers Chronic Chronic Acute 442			
Route of exposure Acute Acute Chronic Chronic Acute local systemic local systemic local Inhalation 442	workers		
local systemic local systemic local Inhalation 442	Acute	Chronic	Chronic
Inhalation 442	systemic	local	systemic
mg/m3	442	221	221
	mg/m3	mg/kg	mg/m3
Skin	<u>_</u>		212
			mg/kg

PHOSPHORIC ACID												
Threshold Limit Value												
Туре	Country	TWA/8h		STEL/15mir	า	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
AGW	DEU	2		4 (C)		INHAL						
MAK	DEU	2		4		INHAL						
VLA	ESP	1		2								
VLEP	FRA	1	0,2	2	0,5							
HTP	FIN	1		2								
TLV	GRC	1		3								
GVI/KGVI	HRV	1		2								
VLEP	ITA	1		2								
RD	LTU	1		2								
TGG	NLD	1		2								
VLE	PRT	1		2								
NDS/NDSCh	POL	1		2								
TLV	ROU	1		2								
NPEL	SVK	1		2								
WEL	GBR	1		2								
OEL	EU	1		2								
TLV-ACGIH		1		3								

bw/d



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

				ETHYLI	BENZENE					
hreshold Limit \	/alue									
Type	Country	TWA/8h		STE	L/15min		Remar	ks / Observa	ntions	
		mg/m3	ppm	mg/	m3	ppm				
AGW	DEU	88	20	176	6	40	SKIN			
MAK	DEU	88	20	176		40	SKIN			
VLA	ESP	441	100	884	1	200	SKIN			
VLEP	FRA	88,4	20	442	2	100	SKIN			
HTP	FIN	220	50	880)	200	SKIN			
TLV	GRC	435	100	545	5	125				
GVI/KGVI	HRV	442	100	884	1	200	SKIN			
VLEP	ITA	442	100	884	1	200	SKIN			
RD	LTU	442	100	884	1	200	SKIN			
TGG	NLD	215		430)		SKIN			
VLE	PRT	442	100	884	1	200	SKIN			
NDS/NDSCh	POL	200		400)		SKIN			
TLV	ROU	442	100	884	1	200	SKIN			
NPEL	SVK	442	100	884	1	200	SKIN			
WEL	GBR	441	100	552	2	125	SKIN			
OEL	EU	442	100	884	1	200	SKIN			
TLV-ACGIH		87	20							
redicted no-effe	ct concent	ation - PNEC								
Normal value in	fresh water							0,1	mg/l	
Normal value in	n marine wate	er						0,01	mg/l	
Normal value for	or fresh wate	r sediment						13,7	mg/kg	
Normal value for	or marine wat	ter sediment						1,37	mg/kg	
Normal value of	f STP microo	organisms						9,6	mg/l	
Normal value for	oisoning)					20	mg/kg			
Normal value for	-,					2,68	mg/kg			
Normal value for	or the atmosp	here						NPI		
lealth - Derived	no-effect lev	el - DNEL / DME	L							
	Effects on consumers					Effects	on worke	rs		
Route of expos				ronic	Chronic	Acute		Acute	Chronic	Chronic
	loca	al systemi	c loc	al	systemic	local		systemic	local	systemic
		- ,			,	000		,		

293

NPI

mg/m3

NPI

NPI

mg/m3

180 mg/kg bw/d

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low

hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

Inhalation

Skin

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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves.

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

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

SKIN PROTECTION

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

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

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

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use

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Method:Closed cup

Temperature: 20 °C

concentration. (see standard EN 14387).

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information
Appearance liquid

Colour red
Odour characteristic of solvent

Melting point / freezing point not available
Initial boiling point 137 °C
Flammability flammable liquid
Lower explosive limit not available
Upper explosive limit not available

Flash point 27 °C
Auto-ignition temperature not available
Decomposition temperature not available

pH not applicable Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent

mixture)

Kinematic viscosity >20,5 mm2/sec (40°C)

Dynamic viscosity

20,3 film2/sec (40 C
3500 mPa*s

Solubility

Partition coefficient: n-octanol/water

Vapour pressure

Density and/or relative density

20,3 film2/sec (40 C
3500 mPa*s

insoluble in water

not applicable

not available

2 g/cm3

Density and/or relative density 2 g/cm3 Temperature: 20 °C 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

Total solids (250°C / 482°F) 63,73 %

VOC (Directive 2010/75/EU) 17,08 % - 341,55 g/litre

Explosive properties not expected Oxidising properties not expected

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.

N-BUTYL ACETATE

Decomposes on contact with: water.

PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°F.

10.2. Chemical stability

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

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SECTION 10. Stability and reactivity .../>>

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.

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.

XYLENE

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

PHOSPHORIC ACID

Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.

ETHYLBENZENE

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

10.4. Conditions to avoid

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

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.

PHOSPHORIC ACID

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

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.

PHOSPHORIC ACID

May develop: phosphoryl oxides.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

XYLENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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SECTION 11. Toxicological information .../>>

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.

XYLENE

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (IspesI). Is irritating for skin, conjunctiva and respiratory tract.

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).

YYI FNE

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: >2000 mg/kg

REACTION MASS OF ETHYLBENZENE AND XYLENE

LD50 (Dermal): 12126 mg/kg New Zealand White rabbit

ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg EU Method B.1, Rat - F344/N
LC50 (Inhalation vapours): 6350 ppm/4h EU Method B.2, Rat - Long-Evans
ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): $$>5000 \, \mathrm{mg/kg} \, \mathrm{Rat}$$ LD50 (Oral): $$8530 \, \mathrm{mg/kg} \, \mathrm{Rat}$$

N-BUTYL ACETATE

 LD50 (Dermal):
 > 5000 mg/kg Rabbit

 LD50 (Oral):
 > 6400 mg/kg Rat

 LC50 (Inhalation vapours):
 21,1 mg/l/4h Rat

XYLENE

LD50 (Dermal): 4350 mg/kg Rabbit

ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg Rat LC50 (Inhalation vapours): 26 mg/l/4h Rat

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SECTION 11. Toxicological information .../>>

PHOSPHORIC ACID

 LD50 (Dermal):
 2740 mg/kg Rabbit

 LD50 (Oral):
 1530 mg/kg Rat

 LC50 (Inhalation mists/powders):
 > 0,85 mg/l/1h Rat

ETHYLBENZENE

 LD50 (Dermal):
 15354 mg/kg Rabbit

 LD50 (Oral):
 3500 mg/kg Rat

 LC50 (Inhalation vapours):
 17,2 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE

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

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

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SECTION 11. Toxicological information .../>>

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

May cause damage to organs

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: >20,5 mm2/sec (40°C)

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

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

REACTION MASS OF ETHYLBENZENE AND XYLENE

LC50 - for Fish 2,6 mg/l/96h OECD Guideline 203, Oncorhynchus mykiss

EC50 - for Crustacea 1 mg/l/48h OECD Guideline 202, Daphnia magna

EC50 - for Algae / Aquatic Plants 1,3 mg/l/72h OECD Guideline 201, Pseudokirchneriella subcapitata

12.2. Persistence and degradability

PHOSPHORIC ACID

Solubility in water > 850000 mg/l

Degradability: information not available

XYLENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

N-BUTYL ACETATE
Solubility in water 1000 - 10000 mg/l

12.3. Bioaccumulative potential

XYLENE

Partition coefficient: n-octanol/water 3,12

BCF 25,9



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SECTION 12. Ecological information .../>>

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 BCF 15,3

12.4. Mobility in soil

XYLENE

Partition coefficient: soil/water 2,73

N-BUTYL ACETATE

Partition coefficient: soil/water < 3

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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: 1263

14.2. UN proper shipping name

ADR / RID: PAINT RELATED MATERIAL IMDG: PAINT RELATED MATERIAL IATA: PAINT RELATED MATERIAL

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SECTION 14. Transport information .../>>

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: Ш

14.5. Environmental hazards

ADR / RID. NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special provision: 163, 367, 650

IMDG: Limited Quantities: 5 L EMS: F-E, S-E

IATA: Maximum quantity: 220 L Packaging instructions: 366 Cargo: Passengers: Maximum quantity: 60 L Packaging instructions: 355

Special provision: A3. A72. A192

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

75 Point

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

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

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SECTION 15. Regulatory information .../>>

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:

Flammable liquid, category 2 Flam. Liq. 2 Flam. Liq. 3 Flammable liquid, category 3

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4 Acute toxicity, category 4 Aspiration hazard, category 1 Asp. Tox. 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H290 May be corrosive to metals. H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

Causes severe skin burns and eye damage. H314

H319 Causes serious eye irritation. H315 Causes skin irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

- 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).



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SECTION 16. Other information .../>>

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 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
- FCHA 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.