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KRAFT POOL EPOXY White Comp.-A

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

Code: CK272981111. Product name KRAFT POOL EPOXY White Comp.-A UFI : M191-30WD-N002-3KTQ 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use 2-Component solvent-based epoxy paint for pools 1.3. Details of the supplier of the safety data sheet DRUCKFARBEN HELLAS SA Name Full address MEGARIDOS AVENUE District and Country 19300 **ASPROPYRGOS** (ATTIKI) GREECE +30 210 5519500 Tel. Fax +30 210 5519501 e-mail address of the competent person responsible for the Safety Data Sheet psafety@druckfarben.gr 1.4. Emergency telephone number For urgent inquiries refer to 0030-210-7793777

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.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

2.2. Label elements

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

Hazard pictograms:



Signal words:



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SECTION 2. Hazards identification ... / >>

Hazard statements:	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory 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.
P331	Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P310	Immediately call a POISON CENTER or a doctor
P370+P378	In case of fire: use alcohol resistant foam to extinguish.
P102	Keep out of reach of children.
P501	Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local / national / international regulations.
Contains:	2-Methylpropan-1-ol 4,4'-(1-methylethylidene)bisphenol polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] XYLENE (reaction mass of ethylbenzene and xylene) 4-morpholinecarbaldehyde

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 $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
	lethylidene)bisphen		2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]
INDEX		$30 \le x \le 50$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC	607-500-3		
CAS	25036-25-3		
TITANIUM DI	OXIDE		
INDEX		9 ≤ x < 30	
EC	236-675-5		
CAS	13463-67-7		
REACH Reg.	01-2119489379-17	-0000	01-2119489379-17-0197 01-2119489379-17
Xylene			
INDEX	601-022-00-9	10 ≤ x < 20	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
EC	215-535-7		LD50 Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11 mg/l/4h
CAS	1330-20-7		
REACH Rea.	01-2119488216-32)	
0		penzene and xylene)	
INDEX	,,	5≤x< 9	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
EC CAS	905-588-0		STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l
REACH Reg.	01-2119486136-34	01-2119539452-40	01-2119539452-40-0055 01-2119485493-29



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ΕN

SECTION 3. Composition/information on ingredients/>> 2-Methylpropan-1-ol INDEX 603-108-00-1 Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, $3 \le x < 5$ STOT SE 3 H336 FC 201-148-0 CAS 78-83-1 REACH Reg. 01-2119484609-23-0006 Solvent naphtha (petroleum), light aromatic INDFX Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, $1 \le x < 25$ Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P EC 64742-95-6 CAS REACH Reg. 01-2119455851-35 n-Butyl Acetate 607-025-00-1 INDEX $0 \le x < 0.5$ Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 204-658-1 EC CAS 123-86-4 REACH Reg. 01-2119485493-29-0007 01-2119485493-29-0005 01-2119485493-29-0003 01-2119485493-29 Xylene (mixture of isomers) INDFX 601-022-00-9 $0 \le x < 0.5$ 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, Classification note according to Annex VI to the CLP Regulation: C FC 215-535-7 LD50 Dermal: >1700 mg/kg, STA Inhalation vapours: 11 mg/l CAS 1330-20-7 REACH Reg. 01-2119488216-32 4-morpholinecarbaldehyde INDEX $0 \le x < 0,5$ Skin Sens. 1B H317 EC 224-518-3 CAS 4394-85-8 REACH Reg. 01-2119987993-12 **ETHYLBENZENE** INDEX 601-023-00-4 $0 \le x < 0,5$ Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412 EC 202-849-4 LC50 Inhalation vapours: 17,2 mg/l/4h CAS 100-41-4 2-Methoxy-1-Methylethyl Acetate INDEX 607-195-00-7 $0 \le x < 0,5$ Flam. Liq. 3 H226, STOT SE 3 H336 EC 203-603-9 CAS 108-65-6 REACH Reg. 01-2119475791-29 01-2119565113-46-0017 01-2119475791-29-0045 01-2119475791-29-0001 Quartz (Crystalline Silica) INDEX $0 \le x < 0.5$ Substance with a community workplace exposure limit. EC 238-878-4 CAS 14808-60-7 Toluene INDEX $0 \le x \le 0.5$ Flam. Lig. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412 EC 203-625-9 CAS 108-88-3 REACH Reg. 01-2119471310-51

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.



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SECTION 4. First aid measures ... / >>

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 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.



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SECTION 7. Handling and storage ... / >>

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:		
BGR Бъл	. c	АРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, ВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 нуари 2020г.)
DEU Deu		orschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur rüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
GRC Ελλ	oi 20	Ι.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των δηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 004/37/ΕΚ ''σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με ην έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία''»
ROU Ron		otărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru nodificarea și completarea hotărârii guvernului nr. 1.093/2006
GBR Unit	ted Kingdom E	H40/2005 Workplace exposure limits (Fourth Edition 2020)
EU OEL	20 20	irective (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 1/322/EEC.
TLV	/-ACGIH A	CGIH 2023

			4-morpho	inecarbaldehy	/de			
Predicted no-effect con	ncentration	- PNEC						
Normal value in fresh	n water					0,5	mg/l	
Normal value in mari	ne water					0,05	mg/l	
Normal value for fres	h water sed	iment				1,85	mg/kg	
Normal value for mar	ine water se	ediment				0,0764	mg/kg	
Normal value for wat	er, intermitte	ent release				5	mg/l	
Health - Derived no-eff	ect level - D	NEL / DMEL					-	
	Effects o	n consumers			Effects on wor	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Inhalation			VND	29		-	VND	98
				mg/m3				mg/m3
Skin			VND	8			0,293	VND
				mg/kg/d			mg/cm2	
				- 0			-	

				Х	ylene	
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	221	50	442	100	SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
TLV	GRC	435	100	650	150	
TLV	ROU	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	



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				2-Methyl	propan-1-ol		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	310	100	310 (C)	100 (C)		
MAK	DEU	310	100	310	100		
TLV	GRC	300	100	300	100		
TLV	ROU	100	33	200	66		
WEL	GBR	154	50	231	75		
TLV-ACGIH		152	50				

Quartz (Crystalline Silica)

Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	ROU	0,1				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP

				Solve	ent naphtha (pe	troleum), ligi	ht aromatic			
Threshold Limi	it Value									
Туре	Cou	ntry 1	FWA/8h		STEL/15	min	Remarks / Ob	servations		
		r	ng/m3	ppm	mg/m3	ppm				
TLV	GRC)	100							
Health - Derive	d no-effe	ct level -	DNEL / I	DMEL						
		Effects	on consu	mers			Effects on work	ers		
Route of exp	osure	Acute	Acu	te	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
		local	syst	emic	local	systemic		systemic	local	systemic
Oral					VND	11				
						mg/kg/d				
Inhalation					VND	32			VND	150
						mg/m3				mg/m3
Skin					VND	11			VND	25
						mg/kg/d				mg/kg/d

				Тс	oluene	
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	192	50	384	100	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	380	100	SKIN
TLV	GRC	192	50	384	100	
TLV	ROU	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH			20			



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	lue			Aylene (III)	cture of isome	513)			
Type	Country	TWA/8	h	STEL/15	ōmin	Remarks / O	bservations		
Type	Country	mg/m3		mg/m3	ppm	rteinante / e	5561 1416115		
MAK	DEU		100		200				
TLV	GRC	435	100	650	150				
WEL	GBR		50		100				
OEL	EU	221	50	442	100				
TLV-ACGIH			100		150				
Predicted no-effect	t concentra	ation - PN	IEC						
Normal value in f	resh water						0,327	mg/l	
Normal value in r	marine wate	ər					0,327	mg/l	
Normal value for	fresh wate	r sedimer	t				12,46	mg/kg	
Normal value for	marine wa	ter sedim	ent				12,46	mg/kg	
lealth - Derived no	o-effect lev	el - DNEI	/ DMEL				,	0 0	
	Effe	cts on co	nsumers			Effects on wor	kers		
Route of exposur			Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca		systemic	local	systemic		systemic	local	systemic
Oral				VND	1,6		, -		,
					mg/kg/d				
Inhalation	174		74	VND	14,8	289	289	VND	77
	mg/	m3 r	ng/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin				VND	108	-	_	VND	180
					mg/kg/d				mg/kg/d
					tyl Acetate				
Threshold Limit Va Type	lue Country	TWA/8		STEL/15	ōmin	Remarks / O	bservations		
Туре	Country	mg/m3	ppm	STEL/15 mg/m3	ōmin ppm		bservations		
Type TLV	Country BGR	mg/m3 275	ppm 50	STEL/15 mg/m3 550	5min ppm 100	Remarks / O SKIN	bservations		
Type TLV AGW	Country BGR DEU	mg/m3 275 270	ppm 50 50	STEL/15 mg/m3 550 270	5min ppm 100 50		bservations		
Type TLV AGW MAK	Country BGR DEU DEU	mg/m3 275 270 270	ppm 50 50 50	STEL/15 mg/m3 550 270 270	5min ppm 100 50 50		bservations		
Type TLV AGW MAK TLV	Country BGR DEU DEU GRC	mg/m3 275 270 270 275	ppm 50 50 50 50 50	STEL/15 mg/m3 550 270 270 550	5min ppm 100 50 50 50 100	SKIN	bservations		
Type TLV AGW MAK TLV TLV	Country BGR DEU DEU GRC ROU	mg/m3 275 270 270 275 275 275	ppm 50 50 50 50 50 50	STEL/15 mg/m3 550 270 270 550 550	5min ppm 100 50 50 100 100	SKIN	bservations		
Type TLV AGW MAK TLV TLV WEL	Country BGR DEU DEU GRC ROU GBR	mg/m3 275 270 270 275 275 275 274	ppm 50 50 50 50 50 50 50	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN	bservations		
Type TLV AGW MAK TLV TLV WEL OEL	Country BGR DEU DEU GRC ROU GBR EU	mg/m3 275 270 270 275 275 275 274 275	ppm 50 50 50 50 50 50 50 50	STEL/15 mg/m3 550 270 270 550 550	5min ppm 100 50 50 100 100	SKIN	bservations		
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect	Country BGR DEU DEU GRC ROU GBR EU t concentra	mg/m3 275 270 270 275 275 275 274 275	ppm 50 50 50 50 50 50 50 50	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN		mall	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f	Country BGR DEU DEU GRC ROU GBR EU t concentra rresh water	mg/m3 275 270 270 275 275 275 274 275 ation - PN	ppm 50 50 50 50 50 50 50 50	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN	0,635	mg/l	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f	Country BGR DEU DEU GRC ROU GBR EU t concentra Tresh water marine water	mg/m3 275 270 270 275 275 275 274 275 ation - PN	ppm 50 50 50 50 50 50 50 IEC	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN	0,635 0,0635	ml/l	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value for	Country BGR DEU DEU GRC ROU GBR EU t concentra Tresh water marine wate fresh wate	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer	ppm 50 50 50 50 50 50 50 1EC	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN	0,635 0,0635 3,29	ml/l mg/kg	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value for Normal value for	Country BGR DEU DEU GRC ROU GBR EU t concentra Tresh water marine water fresh water marine water	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer	ppm 50 50 50 50 50 50 50 1EC	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN	0,635 0,0635 3,29 0,329	ml/l mg/kg mg/kg	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value for Normal value for Normal value for	Country BGR DEU DEU GRC ROU GBR EU t concentra Tresh water marine water fresh water marine water water, inte	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer ter sedimer	ppm 50 50 50 50 50 50 50 EC	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN	0,635 0,0635 3,29 0,329 6,35	ml/l mg/kg mg/kg mg/l	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value for Normal value for Normal value for Normal value for	Country BGR DEU DEU GRC ROU GBR EU t concentra fresh water marine water fresh water marine water stresh water marine water fresh water	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer ter sedimer ter sedimer	ppm 50 50 50 50 50 50 EC	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN	0,635 0,0635 3,29 0,329	ml/l mg/kg mg/kg	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value for Normal value for Normal value for	Country BGR DEU DEU GRC ROU GBR EU t concentra resh water marine wate fresh water marine wate sTP microco o-effect lev	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer ter sedimer ter sedimer ter sedimer ter sedimer ter sedimer	ppm 50 50 50 50 50 50 1EC t t ent elease	STEL/15 mg/m3 550 270 270 550 550 550 548	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN SKIN	0,635 0,0635 3,29 0,329 6,35 100	ml/l mg/kg mg/kg mg/l	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value in f Normal value for Normal value for Normal value for Normal value for Normal value for Normal value for	Country BGR DEU DEU GRC ROU GBR EU toncentro resh water marine wate fresh water marine wate sTP microo peffect lev Effe	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer ter sedimer ter sedimer ter sedimer ter sedimer ter sedimer ter sedimer ter sedimer	ppm 50 50 50 50 50 50 1EC t t ent elease	STEL/15 mg/m3 550 270 270 550 550 548 550	5min ppm 100 50 50 100 100 100	SKIN SKIN SKIN SKIN	0,635 0,0635 3,29 0,329 6,35 100 kers	ml/l mg/kg mg/l mg/l	Chronic
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value for Normal value for Normal value for Normal value for	Country BGR DEU DEU GRC ROU GBR EU toncentro resh water marine wate fresh water marine wate fresh water marine wate sTP microo ceffect lev Effe re Acu	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer	ppm 50 50 50 50 50 50 1EC t t ent elease ./ DMEL nsumers Acute	STEL/15 mg/m3 550 270 550 550 548 550	5min ppm 100 50 50 100 100 100 100 100	SKIN SKIN SKIN SKIN	0,635 0,0635 3,29 0,329 6,35 100 kers Acute	ml/l mg/kg mg/l mg/l Chronic	Chronic
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value in for Normal value for	Country BGR DEU DEU GRC ROU GBR EU toncentro resh water marine wate fresh water marine wate sTP microo peffect lev Effe	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer	ppm 50 50 50 50 50 50 1EC t t ent elease	STEL/15 mg/m3 550 270 270 550 550 548 550 548 550	5min ppm 100 50 50 100 100 100 100 100	SKIN SKIN SKIN SKIN	0,635 0,0635 3,29 0,329 6,35 100 kers	ml/l mg/kg mg/l mg/l	Chronic systemic
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value in f Normal value for Normal value for Normal value for Normal value for Normal value for Normal value for	Country BGR DEU DEU GRC ROU GBR EU toncentro resh water marine wate fresh water marine wate fresh water marine wate sTP microo ceffect lev Effe re Acu	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer	ppm 50 50 50 50 50 50 1EC t t ent elease ./ DMEL nsumers Acute	STEL/15 mg/m3 550 270 550 550 548 550	5min ppm 100 50 50 100 100 100 100 100	SKIN SKIN SKIN SKIN	0,635 0,0635 3,29 0,329 6,35 100 kers Acute	ml/l mg/kg mg/l mg/l Chronic	
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value in for Normal value for	Country BGR DEU DEU GRC ROU GBR EU toncentro resh water marine wate fresh water marine wate fresh water marine wate sTP microo ceffect lev Effe re Acu	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer	ppm 50 50 50 50 50 50 1EC t t ent elease ./ DMEL nsumers Acute	STEL/15 mg/m3 550 270 550 550 548 550 548 550	5min ppm 100 50 50 100 100 100 100 100	SKIN SKIN SKIN SKIN Effects on wor Acute local	0,635 0,0635 3,29 0,329 6,35 100 kers Acute systemic	ml/l mg/kg mg/l mg/l Chronic local	systemic
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value in for Normal value for	Country BGR DEU DEU GRC ROU GBR EU toncentro resh water marine wate fresh water marine wate fresh water marine wate sTP microo ceffect lev Effe re Acu	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer	ppm 50 50 50 50 50 50 1EC t t ent elease ./ DMEL nsumers Acute	STEL/15 mg/m3 550 270 270 550 550 548 550 548 550	5min ppm 100 50 50 100 100 100 100 100	SKIN SKIN SKIN SKIN Effects on wor Acute local	0,635 0,0635 3,29 0,329 6,35 100 kers Acute	ml/l mg/kg mg/l mg/l Chronic	systemic 275
Type TLV AGW MAK TLV TLV WEL OEL Predicted no-effect Normal value in f Normal value in for Normal value for	Country BGR DEU DEU GRC ROU GBR EU toncentro resh water marine wate fresh water marine wate fresh water marine wate sTP microo ceffect lev Effe re Acu	mg/m3 275 270 270 275 275 274 275 ation - PN er r sedimer ter sedimer	ppm 50 50 50 50 50 50 1EC t t ent elease ./ DMEL nsumers Acute	STEL/15 mg/m3 550 270 550 550 548 550 548 550	5min ppm 100 50 50 100 100 100 100 100	SKIN SKIN SKIN SKIN Effects on wor Acute local	0,635 0,0635 3,29 0,329 6,35 100 kers Acute systemic	ml/l mg/kg mg/l mg/l Chronic local	systemic

	TITANIUM DIOXIDE							
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15	min	Remarks / O	bservations	
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	10				RESP		
MAK	DEU	0,3		2,4		RESP	Hinweis	
TLV	GRC		10					
TLV	ROU	10		15				
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		0,2				RESP		



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

ETHYLBENZENE						
Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	435		545		SKIN
AGW	DEU	88	20	176	40	SKIN
MAK	DEU	88	20	176	40	SKIN
TLV	GRC	435	100	545	125	
TLV	ROU	442	100	884	200	SKIN
WEL	GBR	441	100	552	125	SKIN
OEL	EU	442	100	884	200	SKIN
TLV-ACGIH		87	20			

2-Methoxy-1-Methylethyl Acetate

Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	275	50	550	100	SKIN
AGW	DEU	270	50	270	50	
MAK	DEU	270	50	270	50	
TLV	GRC	275	50	550	100	
TLV	ROU	275	50	550	100	SKIN
WEL	GBR	274	50	548	100	SKIN
OEL	EU	275	50	550	100	SKIN

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.

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, 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 ISO 16321).

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

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

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

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



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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value		Information		
Appearance	liquid		Temperature: 25 °C		
Colour	white		Temperature: 25 °C		
Odour	characteristic				
Melting point / freezing point	not available				
Initial boiling point	not available				
Flammability	not available				
Lower explosive limit	not available				
Upper explosive limit	not available				
Flash point	23 ≤ T ≤ 60	°C			
	not available	C			
Auto-ignition temperature					
Decomposition temperature	not available				
pH	not available		Reason for missing data:substance/mixture is		
			non-soluble (in water)		
Kinematic viscosity	745-1130 mm2/s	S	Method:Converting Formula from Dynamic		
			Viscosity & Density		
			Temperature: 25 °C		
Dynamic viscosity	90 -100 KU		Method:ASTM D 562-05		
			Temperature: 25 °C		
Solubility	not available				
Partition coefficient: n-octanol/water	not available				
Vapour pressure	not available				
Density and/or relative density	1,44-1,45	g/cm3	Method:ISO 2811		
		0	Temperature: 25 °C		
Relative vapour density	not available				
Particle characteristics	not applicable				
9.2. Other information					
9.2.1. Information with regard to physical hazard o	classes				
Information not available					
9.2.2. Other safety characteristics					
Total solids (250°C / 482°F)	72,28 %				
	, /				
SECTION 10. Stability and reactivity	/				
10.1. Reactivity					
-					
There are no particular risks of reaction with other	substances in norm	nal conditions of use.			
Toluene					
Avoid exposure to: light.					
n-Butyl Acetate					
Stable in normal conditions of use and storage.					
With the air it may slowly develop peroxides the	at explode with an ir	ncrease in temperature.			
2-Methoxy-1-Methylethyl Acetate					
Stable in normal conditions of use and storage.					
With the air it may slowly develop peroxides that	at explode with an ir	ncrease in temperature.			
10.2. Chemical stability					
The product is stable in normal conditions of use a	and storage.				
	-				
10.3. Possibility of hazardous reactions					
-					
The vapours may also form explosive mixtures with	h the air.				



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

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

Toluene

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds.May form explosive mixtures with: air.May react dangerously with: strong oxidising agents,strong acids,sulphur.

Xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

n-Butyl Acetate

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

ETHYLBENZENE

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

2-Methoxy-1-Methylethyl Acetate

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

10.4. Conditions to avoid

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

10.5. Incompatible materials

n-Butyl Acetate

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

2-Methoxy-1-Methylethyl Acetate

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

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ETHYLBENZENE

May develop: methane,styrene,hydrogen,ethane.

SECTION 11. Toxicological information

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

Xylene (mixture of isomers) XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Metabolism, toxicokinetics, mechanism of action and other information

n-Butyl 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.

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

Xylene

WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Toluene

WORKERS: inhalation; contact with the skin.

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

n-Butyl Acetate

WORKERS: inhalation; contact with the skin.

ETHYLBENZENE

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



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SECTION 11. Toxicological information ... / >>

2-Methoxy-1-Methylethyl Acetate

WORKERS: inhalation; contact with the skin.

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

Xylene

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

Toluene

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

n-Butyl 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).

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.

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).

Interactive effects

Xylene

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

Toluene

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

A A A

ATE (I	nhalation - vapours) of the mixture:	> 20 mg/l
ATE ((Oral) of the mixture:	Not classified (no significant component)
ATE (I	Dermal) of the mixture:	>2000 mg/kg
	4-morpholinecarbaldehyde	
	LD50 (Dermal):	> 18400 mg/kg Rabbit
	LD50 (Oral):	> 7360 mg/kg Rat
	4,4'-(1-methylethylidene)bisphenol polymer with	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]
	LD50 (Dermal):	> 2000 mg/kg Rat
	LD50 (Oral):	> 2000 mg/kg Rat
	XYLENE (reaction mass of ethylbenzene and xyl	ene)
	LD50 (Dermal):	, 12126 mg/kg Rabbit
	STA (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):	27,124 mg/l/4h 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)
	Xylene	
	LD50 (Dermal):	1100 mg/kg Rabbit
	LD50 (Oral):	3523 mg/kg Rat
	LC50 (Inhalation vapours):	11 mg/l/4h Rat
		U



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2460 mg/kg Rabbit 2460 mg/kg Rat

12124 mg/kg Rabbit

> 1700 mg/kg Rabbit

19,2 mg/l/4h Rat

5580 mg/kg Rat

28,1 mg/l/4h Rat

3523 mg/kg Rat

5000 ppm/4h Rat

> 5000 mg/kg Rat

13100 mg/kg Rat

> 10000 mg/kg Rat

15354 mg/kg Rabbit

3500 mg/kg Rat

17,2 mg/l/4h Rat

> 5000 mg/kg Rat

8530 mg/kg Rat

> 21 mg/l Rat

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SECTION 11. Toxicological information ... / >>

2-Methylpropan-1-ol LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

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

Xylene (mixture of isomers) LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

n-Butyl Acetate LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

TITANIUM DIOXIDE LD50 (Oral):

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

2-Methoxy-1-Methylethyl Acetate LD50 (Dermal): LD50 (Oral):

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

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".

Toluene

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

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

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



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SECTION 11. Toxicological information ... / >>

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

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

4-morpholinecarbaldehyde LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	> 500 mg/l/96h Leuciscus idus (Golden orfe > 500 mg/l/48h Daphnia magna (Water flea 23880 mg/l/72h Scenedesmus subspicatus
XYLENE (reaction mass of ethylbenzene and xylene) LC50 - for Fish EC50 - for Algae / Aquatic Plants	18 mg/l/96h Fresh Water Fish 1,3 mg/l/72h Algae
Xylene (mixture of isomers) LC50 - for Fish	> 100 mg/l/96h Microorganisms
12.2. Persistence and degradability	
4-morpholinecarbaldehyde Rapidly degradable	
Xylene Solubility in water Rapidly degradable	100 - 1000 mg/l
2-Methylpropan-1-ol Solubility in water Rapidly degradable	1000 - 10000 mg/l
Toluene Solubility in water Rapidly degradable	100 - 1000 mg/l
Xylene (mixture of isomers) Rapidly degradable	
n-Butyl Acetate Solubility in water Rapidly degradable	> 10000 mg/l
TITANIUM DIOXIDE Solubility in water Degradability: information not available	< 0,001 mg/l
ETHYLBENZENE Solubility in water Rapidly degradable	1000 - 10000 mg/l



SECTION 12 Ecological information

DRUCKFARBEN HELLAS SA

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SECTION 12. ECOlogical information	
2-Methoxy-1-Methylethyl Acetate Solubility in water Rapidly degradable	> 10000 mg/l
12.3. Bioaccumulative potential	
Xylene Partition coefficient: n-octanol/water	3 12

BCF	3,12 25,9
2-Methylpropan-1-ol Partition coefficient: n-octanol/water	1
Toluene Partition coefficient: n-octanol/water BCF	2,73 90
n-Butyl Acetate Partition coefficient: n-octanol/water	1,2
ETHYLBENZENE Partition coefficient: n-octanol/water	3,6
2-Methoxy-1-Methylethyl Acetate Partition coefficient: n-octanol/water	1,2

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

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: UN 1263

14.2. UN proper shipping name

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



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3

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: III

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: EMS: F-E, <u>S-E</u> Limited Quantities: 5 L IATA: Cargo: Maximum quantity: 220 L Packaging instructions: 366 Passengers: Maximum quantity: 60 L Packaging instructions: 355 Special provision: A3, A72, A192

P5c

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 Point 75 Point 48 Toluene REACH Reg.: 01-2119471310-51 Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%. Substances subject to authorisation (Annex XIV REACH) None 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:

Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Acute Tox. 4 Asp. Tox. 1 STOT RE 2 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3 Skin Sens. 1 Skin Sens. 1B Aquatic Chronic 2 Aquatic Chronic 3 H225 H226 H361d H312 H332 H304 H373 H318 H319 H315 H335 H317 H326	Flammable liquid, category 2 Flammable liquid, category 3 Reproductive toxicity, category 2 Acute toxicity, category 4 Aspiration hazard, category 1 Specific target organ toxicity - repeated exposure, category 2 Serious eye damage, category 1 Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Skin sensitization, category 1 Skin sensitization, category 1 Skin sensitization, category 1B Hazardous to the aquatic environment, chronic toxicity, category 2 Hazardous to the aquatic environment, chronic toxicity, category 3 Highly flammable liquid and vapour. Flammable liquid and vapour. Suspected of damaging the unborn child. Harmful in contact with skin. Harmful if inhaled. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction. May cause an allergic skin reaction. May cause damages or dizzipaes
H336 H411 H412 EUH066	May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.
	Nopeated exposure may cause skill dryness of clacking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic



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SECTION 16. Other information ... / >>

- PNEC: Predicted no effect concentration

- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 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
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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



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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 Code: CK272982001. Product name KRAFT POOL EPOXY Comp.-B UFI : JH81-20S0-T003-4JAA 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

2-Component solvent-based epoxy paint for pools

1.3. Details of the supplier of the safety data sheet

Name Full address		ARBEN HELLAS SA DOS AVENUE	
District and Country	19300	ASPROPYRGOS GREECE	(ATTIKI)
	Tel.	+30 210 5519500	
	Fax	+30 210 5519501	
e-mail address of the competent person responsible for the Safety Data Sheet	psafety@	druckfarben.gr	
1.4. Emergency telephone number			

0030-210-7793777

For urgent inquiries refer to

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 2	H225	Highly flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1B	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure,	H336	May cause drowsiness or dizziness.
category 3		
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

2.2. Label elements

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

Hazard pictograms:





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SECTION 2. Hazards ident	tification/>>
Signal words:	Danger
Hazard statements:	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
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.
P331	Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P310	Immediately call a POISON CENTER or a doctor
P370+P378	In case of fire: use alcohol resistant foam to extinguish.
P102	Keep out of reach of children.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P501	Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local /
	national / international regulations.
Contains:	Xylene
	2-Methylpropan-1-ol
	Triethylenetetramine
	Ethylbenzene

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
-		polymers with tall-oil	fatty acids and
triethylenetet INDEX EC	ramine	50 ≤ x < 100	Eye Irrit. 2 H319, Skin Irrit. 2 H315
CAS	68082-29-1		
2-Methylprop	an-1-ol		
INDEX	603-108-00-1	$20 \le x \le 30$	Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
EC	201-148-0		
CAS	78-83-1		
REACH Reg.	01-2119484609-23	-0006	
Xylene			
INDEX	601-022-00-9	10 ≤ x < 20	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
EC	215-535-7		LD50 Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11 mg/l/4h
CAS	1330-20-7		
REACH Reg.	01-2119488216-32		



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SECTION 3. Composition/information on ingredients/>>

Ethylbenzene	1		
INDEX	601-023-00-4	5≤x< 9	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,
			Aquatic Chronic 3 H412
EC	202-849-4		LC50 Inhalation vapours: 11 mg/l/4h
CAS	100-41-4		
REACH Reg.	01-2119489370-35	5	
Triethylenetet	tramine		
INDEX	612-059-00-5	1≤x< 3	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318,
			Skin Sens. 1B H317, Aquatic Chronic 3 H412
EC	292-588-2		STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg
CAS	90640-67-8		
REACH Reg.	01-2119487919-13	}	

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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.



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SECTION 6. Accidental release measures/>>

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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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 2020г.)
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur
		Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των
		οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «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"»
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
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU)
		2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive
		2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive
		91/322/EEC.
	TLV-ACGIH	ACGIH 2023



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

				Х	lylene		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	221	50	442	100	SKIN	
AGW	DEU	440	100	880	200	SKIN	
MAK	DEU	440	100	880	200	SKIN	
TLV	GRC	435	100	650	150		
TLV	ROU	221	50	442	100	SKIN	
WEL	GBR	220	50	441	100	SKIN	
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH		434	100	651	150		

2-Methylpropan-1-ol

Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	310	100	310 (C)	100 (C)	
MAK	DEU	310	100	310	100	
TLV	GRC	300	100	300	100	
TLV	ROU	100	33	200	66	
WEL	GBR	154	50	231	75	
TLV-ACGIH		152	50			

Legend:

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

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.

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, 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

EYEPROTECTION

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 AX filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

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

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

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	
Appearance	
Colour	

Value liquid transparent Information Temperature: 25 °C Temperature: 25 °C



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SECTION 9. Physical and chemical properties	s/>>	
Odour Melting point / freezing point Initial boiling point > Flammability Lower explosive limit Upper explosive limit Flash point	characteristic not available 35 °C not available not available not available 22.85 \leq T < 23 °C	
Auto-ignition temperature Decomposition temperature pH	not available not available not available	Reason for missing data:substance/mixture is
Kinematic viscosity	239 mm2/s	non-soluble (in water) Method:Converting Formula from Dynamic Viscosity & Density Temperature: 25 °C
Dynamic viscosity	53,5 KU	Method:ASTM D 562-05 Temperature: 25 °C
Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density	not available not available not available 0,9 g/cm3	Method:ISO 2811
Relative vapour density Particle characteristics	not available not applicable	Temperature: 25 °C
9.2. Other information		
9.2.1. Information with regard to physical hazard cla	asses	
Information not available		
9.2.2. Other safety characteristics		
Total solids (250°C / 482°F)	52,50 %	

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

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.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Information not available

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.



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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

Information not available

Information on likely routes of exposure

Xylene

WORKERS: inhalation; contact with the skin.

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

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

Xylene

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

Interactive effects

Xylene

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

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	> 20 mg/l >2000 mg/kg >2000 mg/kg
Ethylbenzene LD50 (Dermal):	15400 mg/kg
LD50 (Oral):	3500 mg/kg
LC50 (Inhalation vapours):	11 mg/l/4h
Triethylenetetramine	
STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (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)
Xylene	
LD50 (Dermal):	1100 mg/kg Rabbit
LD50 (Oral):	3523 mg/kg Rat
LC50 (Inhalation vapours):	11 mg/l/4h Rat
2-Methylpropan-1-ol	
LD50 (Dermal):	2460 mg/kg Rabbit
LD50 (Oral):	2460 mg/kg Rat
LC50 (Inhalation vapours):	19,2 mg/l/4h Rat
SKIN CORROSION / IRRITATION	
Courses align irritation	

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION



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SECTION 11. Toxicological information ... / >>

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

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".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

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

Ethylbenzene LC50 - for Fish	5,1 mg/l/96h Atlantic silverside (Menidia menidia)
12.2. Persistence and degradability	
Xylene Solubility in water Rapidly degradable	100 - 1000 mg/l
2-Methylpropan-1-ol Solubility in water Rapidly degradable	1000 - 10000 mg/l
12.3. Bioaccumulative potential	
Xylene Partition coefficient: n-octanol/water BCF	3,12 25,9
2-Methylpropan-1-ol Partition coefficient: n-octanol/water	1



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SECTION 12. Ecological information ... / >>

12.4. Mobility in soil

Information not available

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: UN 1263

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3

14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO



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SECTION 14. Transport information ... / >>

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: 163, 3	367, 650	
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Passengers:	Maximum quantity: 60 L	Packaging instructions: 355
	Special provision:	A3, A72, A192	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Seveso Category - Directive 2012/18/EU: P5c Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product Point 3 - 40 Contained substance 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 \geq 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 Healthcare controls Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3



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SECTION 16. Other information ... / >>

Skin Sens. 1B Aquatic Chronic 3 H225	Skin sensitization, category 1B Hazardous to the aquatic environment, chronic toxicity, category 3 Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

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

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (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)



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SECTION 16. Other information ... / >>

- 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
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- Note for users:

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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