

KRAFT METAL 3IN1 HAMMERED 015-Black

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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:
 CK322310015

 Product name
 KRAFT METAL 3IN1 HAMMERED 015-Black

UFI :

NKA0-H057-K00A-6GXK

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

Intended use

Hammer effect anticorrosive paint for metal

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			

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 2	H225	Highly flammable liquid and vapour.
Acute toxicity, category 4	H332	Harmful if inhaled.
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.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words:

Danger



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SECTION 2. Hazards identification .../>>

Hazard statements: H225 H332 H304 H373 H319 H315 H335 H412 EUH208	Highly flammable liquid and vapour. 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. Harmful to aquatic life with long lasting effects. Contains: oxybis(methyl-2,1-ethanediyl) diacrylate Phthalic Anhydride May produce an allergic reaction.
Precautionary statements: P210 P331 P301+P310 P370+P378 P501 P102 P261 P271 P280 P312	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do NOT induce vomiting. IF SWALLOWED: immediately call a POISON CENTER or a doctor In case of fire: use alcohol resistant foam to extinguish. Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local / national / international regulations. Keep out of reach of children. Avoid breathing dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing / eye protection / face protection. Call a POISON CENTRE / doctor, if you feel unwell.
Contains:	Reaction mass of Ethylbenzene and Xylene Xylene (mixture of isomers) Styrene 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 $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
Xylene (mixtu	re of isomers)		
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, Classification note according to Annex VI to the CLP Regulation: C
EC	215-535-7		LD50 Dermal: >1700 mg/kg, STA Inhalation vapours: 11 mg/l
CAS	1330-20-7		
REACH Reg.	01-2119488216-32		
Reaction mas	s of Ethylbenzene a	nd Xylene	
INDEX		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
EC	905-588-0		STA Dermal: 1100 mg/kg, STA Inhalation mists/powders: 1,5 mg/l, STA Inhalation vapours: 11 mg/l
CAS			
REACH Reg. Ethylbenzene		01-2119539452-40	01-2119539452-40-0055
INDEX	601-023-00-4	$5 \le x < 9$	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: 17,6 mg/l/4h
CAS	100-41-4		



SECTION 3. Composition/information on ingredients/>>

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REACH Reg. 01-2119489370-35 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics INDEX Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066, Classification 649-327-00-6 $1 \le x < 5$ note according to Annex VI to the CLP Regulation: P EC 919-857-5 64742-48-9 CAS REACH Reg. 01-2119463258-33 Solvent Naphtha (petroleum), Heavy Aromatic INDEX 649-424-00-3 $1 \le x < 2.5$ Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066 265-198-5 EC CAS 64742-94-5 Styrene INDFX 601-026-00-0 $1 \le x < 3$ Flam. Liq. 3 H226, Repr. 2 H361d, Acute Tox. 4 H332, STOT RE 1 H372, Asp. Tox. 1 H304, 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: D EC 202-851-5 STA Inhalation vapours: 11 mg/l 100-42-5 CAS REACH Reg. 01-2119457861-32 **N-BUTYL ACETATE** INDEX 607-025-00-1 $0.5 \le x < 1$ Flam. Lig. 3 H226, STOT SE 3 H336, EUH066 EC 204-658-1 CAS 123-86-4 **Xylene** 601-022-00-9 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, INDEX $0.5 \le x < 1$ 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 STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l CAS 1330-20-7 REACH Reg. 01-2119488216-32 1-Methoxy 2-Propanol $0 \le x < 0.5$ INDFX 603-064-00-3 Flam. Liq. 3 H226, STOT SE 3 H336 EC 203-539-1 CAS 107-98-2 REACH Reg. 01-2119457435-35-00XX Phthalic Anhydride Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, INDEX 607-009-00-4 $0 \le x < 0.5$ Resp. Sens. 1 H334, Skin Sens. 1 H317 FC 201-607-5 STA Oral: 500 mg/kg CAS 85-44-9 REACH Reg. 01-2119457017-41 oxybis(methyl-2,1-ethanediyl) diacrylate INDEX $0 \le x < 0,5$ Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317 EC 260-754-3 CAS 57472-68-1 REACH Reg. 01-2119484629-21 Xylene (ortho-) INDFX 601-022-00-9 $0 \le x \le 0.5$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C 202-422-2 EC LD50 Dermal: >1700 mg/kg, STA Inhalation vapours: 11 mg/l CAS 95-47-6 REACH Reg. 01-2119488216 n-Butyl Acetate INDEX 607-025-00-1 $0 \le x \le 0.5$ Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 EC 204-658-1 CAS 123-86-4 01-2119485493-29-0007 01-2119485493-29-0005 01-2119485493-29-0003 01-2119485493-29 REACH Reg. **Ethylene Glycol Monobutyl Ether** INDEX 603-014-00-0 $0 \le x < 0.5$ Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315 FC. 203-905-0 LD50 Oral: 1200 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 ma/l CAS 111-76-2 REACH Reg. 01-2119475108-36 Ethylbenzene INDFX 601-023-00-4 $0 \le x \le 0.5$ Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373 EC 202-849-4 LC50 Inhalation vapours: 17,2 mg/l/4h CAS 100-41-4

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CTION 3. Co	omposition/info	rmation on ingredier	nts/>>
Acetone			
INDEX	606-001-00-8	0 ≤ x < 0,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	200-662-2		
CAS	67-64-1		
REACH Reg.	01-2119471330-4	19-0003	
2-Methoxy-1-I	Methylethyl Acetat	e	
INDEX	607-195-00-7	0 ≤ x < 0,5	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9		
CAS	108-65-6		
REACH Reg.	01-21194575791	-29-0015 01-211947579	129
BTC Methoxy	Propyl Acetate (N		
INDEX	607-195-00-7	, 0 ≤ x < 0,5	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9		
CAS	108-65-6		
REACH Reg.	01-2119475791-2	29-00XX	
Naphthalene			
INDEX	601-052-00-2	0 ≤ x < 0,25	Flam. Sol. 2 H228, Carc. 2 H351, Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	202-049-5		STA Oral: 500 mg/kg
CAS	91-20-3		
REACH Reg.	01-2119561346-3	37	
Quartz (Cryst			
INDEX	,	0 ≤ x < 0,5	Substance with a community workplace exposure limit.
EC	238-878-4		
CAS	14808-60-7		
Hydrocarbons	s, C10-C13, isoalk	anes, cyclics, <2% aro	matics
INDEX	649-327-00-6	0,00001 ≤ x < 0,5	Asp. Tox. 1 H304, EUH066
EC	918-317-6		EUH066: ≥ 1E-05%
CAS	68551-17-7		
REACH Reg.	01-2119474196-3	32-xxxx 01-	- 2119457272-39
Toluene			
INDEX	601-021-00-3	$0 \le x \le 0,5$	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412
EC	203-625-9		STA Inhalation vapours: 11 mg/l
CAS	108-88-3		
REACH Req.		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.

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.



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SECTION 5. Firefighting measures ... / >>

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. 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

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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	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
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''»
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
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 2022

				Phthali	c Anhydride				
Threshold Limit Va	lue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ol	oservations		
		mg/m3	ppm	mg/m3	ppm				
OEL	EU	6	1	6	1				
Predicted no-effect concentration - PNEC									
Normal value in f	resh water						5,6	mg/l	
Normal value for	fresh water	sediment					0,02826	mg/kg	
Normal value of S	STP microo	rganisms					10	mg/l	
Health - Derived no-effect level - DNEL / DMEL									
	Effe	cts on consu	mers			Effects on worl	kers		
Route of exposur	e Acut	e Acu	ite	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic		systemic	local	systemic
Oral				VND	5				
					mg/kg/day				
Inhalation				VND	8,6			VND	32,2
					mg/kg/day				mg/kg/day
Skin				VND	5				
					mg/kg/day				

Naphthalene								
Threshold Limit Value								
Туре	Country	TWA/8h	TWA/8h		min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	GRC	50						
OEL	EU	50						



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				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		
VLEP	ITA	221	50	442	100	SKIN	
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		

				Quartz (Cry	/stalline S	Silica)
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	0,1				RESP
TLV	ROU	0,1				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP

				Ac	etone				
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	600		1400					
AGW	DEU	1200	500	2400 (C)	1000 (C)				
MAK	DEU	1200	500	2400	1000				
TLV	GRC	1780		3560					
VLEP	ITA	1210	500						
TLV	ROU	1210	500						
WEL	GBR	1210	500	3620	1500				
OEL	EU	1210	500						
TLV-ACGIH			250		500				

Ethylene Glycol Monobutyl Ether

Туре	Country	TWA/8h		STEL/15	STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	98	20	246	50	SKIN			
AGW	DEU	49	10	98 (C)	20 (C)	SKIN			
MAK	DEU	49	10	98	20	SKIN	Hinweis		
TLV	GRC	120	25						
VLEP	ITA	98	20	246	50	SKIN			
TLV	ROU	98	20	246	50	SKIN			
WEL	GBR	123	25	246	50	SKIN			
OEL	EU	98	20	246	50	SKIN			
TLV-ACGIH		97	20						

				2-Methoxy-1-M	ethylethy	/I Acetate
Threshold Limit	t 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	
VLEP	ITA	275	50	550	100	SKIN
TLV	ROU	275	50	550	100	SKIN
WEL	GBR	274	50	548	100	SKIN
OEL	EU	275	50	550	100	SKIN

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

				Xyler	ne (ortho-)				
Threshold Limit Va	lue								
Туре	Country	TWA/8h		STEL/15	STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
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	tion - PNE	EC						
Normal value in f	fresh water						0,327	mg/l	
Normal value in r	marine wate	er					0,327	mg/l	
Normal value for	fresh water	sediment					12,46	mg/kg	
Normal value for	marine wat	er sedime	nt				12,46	mg/kg	
Health - Derived no	o-effect leve	el - DNEL	/ DMEL						
	Effe	cts on cons	sumers			Effects on worke	ers		
Route of exposur	re Acut	e A	cute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	l sy	stemic	local	systemic		systemic	local	systemic
Oral				VND	1,6				
					mg/kg/d				
Inhalation	174	17	74	VND	14,8	289	289	VND	77
	mg/ı	m3 m	g/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin				VND	108			VND	180
					mg/kg/d				mg/kg/d
				Тс	oluene				

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

				Xylene (mix	ture of isome	ers)			
Threshold Limit Va	lue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ob	servations		
		mg/m3	ppm	mg/m3	ppm				
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		ation - PNE	C						
Normal value in f							0,327	mg/l	
Normal value in r							0,327	mg/l	
Normal value for							12,46	mg/kg	
Normal value for			-				12,46	mg/kg	
Health - Derived no									
		cts on consu				Effects on work	ers		
Route of exposur				Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic		systemic	local	systemic
Oral				VND	1,6				
					mg/kg/d				
Inhalation	174	174	-	VND	14,8	289	289	VND	77
	mg/	m3 mg	/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin				VND	108			VND	180
					mg/kg/d				mg/kg/d



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

			•						
				S	tyrene				
Threshold Limit V	alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ot	oservations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	85		215					
AGW	DEU	86	20	172	40				
MAK	DEU	86	20	172	40				
TLV	GRC	425	100	1050	250				
WEL	GBR	430	100	1080	250				
TLV-ACGIH		85	20	170	40				
				1-Methov	(y 2-Propano	I			
Threshold Limit V	alue			-Metho		•			
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ot	oservations		
,,	,	mg/m3	ppm	mg/m3	ppm				
MAK	DEU	0	100	0	200				
TLV	GRC	360	100	1080	300				
WEL	GBR		100		150				
OEL	EU	375	100	568	150				
TLV-ACGIH			100		150				
Predicted no-effe	ct concentra	ation - PNEC	:						
Normal value in	fresh water						10	mg/l	
Normal value in	marine wate	ər					1	mg/l	
Normal value fo	r fresh wate	r sediment					41,6	mg/kg	
Normal value fo	r marine wa	ter sediment					4,17	mg/kg	
Normal value fo	r water. inte	rmittent relea	ase				100	mg/l	
Health - Derived n	,								
		cts on consu				Effects on worl	kers		
Route of exposi	ure Acu	te Acu	te	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca		temic	local	systemic		systemic	local	systemic
Oral	1000			VND	3,3		0,01011110	1000	eyetettie
					mg/kg				
Inhalation				VND	43,9	553,5	VND	VND	369
malation					mg/m3	mg/m3			mg/m3
Skin				VND	18,1	ing/ino		VND	50,6
UNIT					10,1				50,0 m m// m

				n-B	utyl Acetate				
Threshold Lim	it Value								
Туре	Cour	ntry TW	A/8h	STEL/	STEL/15min		Observations		
		mg	/m3 ppn	n mg/m3	3 ppm				
TLV	BGR	27	5 50	550	100	SKIN			
AGW	DEU	27	0 50	270	50				
MAK	DEU	27	0 50	270	50				
TLV	GRC	27	5 50	550	100				
VLEP	ITA	27	5 50	550	100	SKIN			
TLV	ROU	27	5 50	550	100	SKIN			
WEL	GBR	27	4 50	548	100	SKIN			
OEL	EU	27	5 50	550	100	SKIN			
Predicted no-e	effect cond	entration -	PNEC						
Normal value	e in fresh v	water					0,635	mg/l	
Normal value	e in marine	e water					0,0635	ml/l	
Normal value	e for fresh	water sedir	nent				3,29	mg/kg	
Normal value	e for marir	e water seo	diment				0,329	mg/kg	
Normal value	e for water	, intermitter	nt release				6,35	mg/l	
Normal value	e of STP n	nicroorganis	sms				100	mg/l	
Health - Derive	ed no-effe	ct level - D	NEL / DMEL						
		Effects on	consumers			Effects on wo	rkers		
Route of exp	osure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
		local	systemic	local	systemic		systemic	local	systemic
Oral			-	VND	1,67		-		
					mg/kg				
Inhalation				VND	33	553,5	VND	VND	275
					mg/m3	mg/m3			mg/m3
Skin				VND	54,8	-		VND	153,5
					mg/kg				mg/kg

mg/kg

mg/kg



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

			B	TC Methoxy P	opyl Acetate	(MPA)			
reshold Limit Val	ue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ot	oservations		
		mg/m3	ppm	mg/m3	ppm				
	BGR	275	50	550	100	SKIN			
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
TLV	GRC	275	50	550	100				
VLEP	ITA	275	50	550	100	SKIN			
TLV	ROU	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
redicted no-effect	concentra	ation - PNE	С						
Normal value in fr	esh water						0,635	mg/l	
Normal value in n	narine wate	er					0,0635	ml/l	
Normal value for	fresh wate	r sediment					3,29	mg/kg	
Normal value for	marine wa	ter sedimen	t				0,329	mg/kg	
Normal value for	water, inte	rmittent rele	ase				6,35	mg/l	
Normal value of S	STP microo	organisms					100	mg/l	
ealth - Derived no	-effect lev	el - DNEL /	DMEL					-	
	Effe	cts on cons	umers			Effects on work	kers		
Route of exposure	e Acu	te Ac	ute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic		systemic	local	systemic
Oral				VND	1,67		2		
					mg/kg				
Inhalation				VND	33	553,5	VND	VND	275
					mg/m3	mg/m3			mg/m3
Skin				VND	54,8	0		VND	153,5
					mg/kg				mg/kg

				Ethy	lbenzene	
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	
VLEP	ITA	442	100	884	200	SKIN
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			

N-B	UTYL	ACET	ATE

				N-DUIT	LACETATE	
Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	710		950		
AGW	DEU	300	62	600 (C)	124 (C)	
TLV	GRC	710	150	950	200	
VLEP	ITA	241	50	723	150	
TLV	ROU	241	50	723	150	
WEL	GBR	724	150	966	200	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	



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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Threshold Lim	nit Value								
Туре	Country	TWA/8h		STEL/15	min	Remarks / O	bservations		
		mg/m3	ppm	mg/m3	ppm				
TLV	GRC	1200							
Health - Derive	ed no-effect l	evel - DNEL /	DMEL						
	E	ffects on cons	umers			Effects on wor	kers		
Route of ex	posure A	cute Ac	ute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	lo	ical sys	stemic	local	systemic		systemic	local	systemic
Oral				VND	300				
					mg/kg/d				
Inhalation				VND	900	VND	1500		
					mg/m3		mg/m3		
Skin				VND	300			VND	300
					mg/kg/d				mg/kg/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

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 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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

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

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

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties
Appearance
Colour
Odour
Melting point / freezing point
Initial boiling point
Flammability
Lower explosive limit

Value liquid black characteristic of solvent not available 35 °C not available Information Temperature: 25 °C Temperature: 25 °C



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SECTION 9. Physical and chemical properties/>>

	not available	
Upper explosive limit	not available	
Flash point	< 23 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	not available	Reason for missing data:substance/mixture is
		non-soluble (in water)
Kinematic viscosity	300-950 mm2/s	Method:Converting Formula from Dynamic
		Viscosity & Density
		Temperature: 25 °C
Dynamic viscosity	60-80 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	0,93-0,99 g/cm3	Method:ISO 2811
	-	Temperature: 25 °C
Relative vapour density	not available	
Particle characteristics	not applicable	
9.2. Other information		
9.2.1. Information with regard to physical haza	rd classes	
Information not available		
9.2.2. Other safety characteristics		

Total solids (250°C / 482°F)

55,00 %

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Acetone

Decomposes under the effect of heat. Ethylene Glycol Monobutyl Ether Decomposes under the effect of heat.

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.

Toluene

Avoid exposure to: light.

Styrene

STYRENE: polymerises readily above 65° C/149°F with risk of fire and explosion; added with an inhibitor that requires a small amount of dissolved oxygen at temperatures < 25° C/77°F.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

n-Butyl Acetate

Stable in normal conditions of use and storage. With the air it may slowly develop peroxides that explode with an increase in temperature.

BTC Methoxy Propyl Acetate (MPA)

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.

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.

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.

Acetone

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3

butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides.bromine.bromoform.isoprene.sodium.sulphur dioxide.chromium trioxide.chromyl chloride.nitric

hydroxides,bromine,bromotorm,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyi chloride,nitric

acid, chloroform, peroxymonosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

Ethylene Glycol Monobutyl Ether

May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.

2-Methoxy-1-Methylethyl Acetate

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

Xylene (ortho-)

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.

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.

Styrene

STYRENE: can react dangerously with peroxides and strong acids. May polymerise on contact with: aluminium trichloride, azobisisobutyronitrile, dibenzoyl peroxide, sodium. Risk of explosion on contact with: butyllithium, chlorosulphuric acid, diterbutyl peroxide, oxidising agents, oxygen.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

n-Butyl Acetate

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

BTC Methoxy Propyl Acetate (MPA)

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.

N-BUTYL ACETATE

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

10.4. Conditions to avoid

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

Acetone

Avoid exposure to: sources of heat, naked flames.

Ethylene Glycol Monobutyl Ether

Avoid exposure to: sources of heat, naked flames.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: avoid exposure to the air.

N-BUTYL ACETATE

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

- Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
 - Avoid exposure to: heat.

Keep away from: oxidising agents.

10.5. Incompatible materials

Acetone

Incompatible with: acids,oxidising substances.

2-Methoxy-1-Methylethyl Acetate

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

Styrene

STYRENE: avoid oxidising agents, copper and strong acids; it dissolves various types of plastic materials, but not polychloroprene and



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

polyvinyl alcohol.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

n-Butyl Acetate

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

BTC Methoxy Propyl Acetate (MPA)

Incompatible with: oxidising substances,strong acids,alkaline metals. N-BUTYL ACETATE

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

10.6. Hazardous decomposition products

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

Acetone May develop: ketenes,irritant substances. Ethylene Glycol Monobutyl Ether May develop: hydrogen. 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

Xylene (ortho-)

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

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.

Styrene

STYRENE: Acute toxicity following inhalation at 1000 ppm involves the central nervous system with headache and dizziness, lack of coordination; irritation of the mucous membranes of the eyes and respiratory tract occurs at 500 ppm concentrations. Chronic exposure produces depression of the Central and peripheral nervous system with loss of memory, headache and somnolence starting at 20 ppm; digestive disorders with nausea and loss of appetite; irritation of the respiratory tract with chronic bronchitis and dermatosis.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

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.

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.

BTC Methoxy Propyl Acetate (MPA)

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.



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2-Methoxy-1-Methylethyl Acetate WORKERS: inhalation; contact with the skin.

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.

BTC Methoxy Propyl Acetate (MPA) 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.

N-BUTYL 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.

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).

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).

BTC Methoxy Propyl Acetate (MPA)

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.

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

Xylene

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

Toluene

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

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



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SECTION 11. Toxicological information ... / >>

acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation - mists / power ATE (Inhalation - vapours) of ATE (Inhalation - gas) of the r ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	the mixture:	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Not classified (no significant component) >2000 mg/kg
Solvent Naphtha (peti LD50 (Dermal): LC50 (Inhalation vapo	roleum), Heavy Aromatic ours):	> 2110 mg/kg Rabbit > 590 mg/m3 Rat
Naphthalene LD50 (Oral):		> 5000 mg/kg Rat derive OOSA 401
Ethylbenzene LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapo	ours):	15400 mg/kg 3500 mg/kg 17,6 mg/l/4h
Reaction mass of Eth STA (Dermal): STA (Inhalation mists	ylbenzene and Xylene /powders):	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) 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP
STA (Inhalation vapor	urs):	(figure used for calculation of the acute toxicity estimate of the mixture) 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): STA (Dermal):		4350 mg/kg Rabbit 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): LC50 (Inhalation vapo	ours):	3523 mg/kg Rat 26 mg/l/4h Rat
Ethylene Glycol Mono	butvl Ether	
LD50 (Oral): LC50 (Inhalation vapo		1200 mg/kg Guinea pig 2,2 mg/l/4h Rat
2-Methoxy-1-Methylet	thyl Acetate	
LD50 (Dermal):		> 5000 mg/kg Rat
LD50 (Oral):		8530 mg/kg Rat
Xylene (ortho-)		
LD50 (Dermal):		> 1700 mg/kg Rabbit
LD50 (Oral): LC50 (Inhalation vapo	ours):	3523 mg/kg Rat 5000 ppm/4h Rat
Toluene		
LD50 (Dermal):		> 5000 mg/kg Rabbit
LD50 (Oral): LC50 (Inhalation vapo	ours).	5580 mg/kg Rat 28,1 mg/l/4h Rat
		20, 1 mg// 11 Pat
Xylene (mixture of iso	omers)	
LD50 (Dermal): LD50 (Oral):		> 1700 mg/kg Rabbit 3523 mg/kg Rat
LC50 (Inhalation vapo	ours):	5000 ppm/4h Rat
STA (Inhalation vapor		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)
Styrene		
LD50 (Dermal):		> 2000 mg/kg Rabbit
LD50 (Oral): LC50 (Inhalation vapo	oure).	> 2000 mg/kg Rat > 20 mg/l/4h Rat
STA (Inhalation vapor		 20 mg/i/4n Rat 11 mg/l estimate from table 3.1.2 of Annex I of the CLP
•		



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SECTION 11. Toxicological information ... / >>

1-Methoxy 2-Propanol LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

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

BTC Methoxy Propyl Acetate (MPA) LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

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

N-BUTYL ACETATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics</td>LD50 (Dermal):> 5000 mg/kg RabbitLD50 (Oral):> 5000 mg/kg RatLC50 (Inhalation vapours):> 20 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: oxybis(methyl-2,1-ethanediyl) diacrylate Phthalic Anhydride

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Xylene

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

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).

> 2000 mg/kg Rat 54,6 mg/l/4h Rat

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

> 5000 mg/kg Rat 8530 mg/kg Rat > 25,8 mg/l Rat

> 5000 mg/kg Rabbit

> 5000 mg/kg Rat 8530 mg/kg Rat > 25,8 mg/l Rat

15354 mg/kg Rabbit 3500 mg/kg Rat 17,2 mg/l/4h Rat

> 5000 mg/kg Rabbit> 6400 mg/kg Rat21,1 mg/l/4h Rat

> 5000 mg/kg Rabbit



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SECTION 11. Toxicological information ... / >>

Does not meet the classification criteria for this hazard class

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

Naphthalene	
LC50 - for Fish	> 1 mg/l/96h Theoretical
LC10 for Fish	> 1 mg/l/96h Theoretical
Ethylbenzene	
LC50 - for Fish	5,1 mg/l/96h Atlantic silverside (Menidia menidia)
Vulana (ortha)	
Xylene (ortho-) LC50 - for Fish	> 100 mg/l/96h Microorganisms
Xylene (mixture of isomers)	
LC50 - for Fish	> 100 mg/l/96h Microorganisms
1-Methoxy 2-Propanol	
LC50 - for Fish	> 6,8 mg/l/96h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <	
LC50 - for Fish EC50 - for Crustacea	> 100 mg/l/96h Fish / Aquatic Invertebrates / Algae / Microorganisms
	> 100 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h
Chronic NOEC for Fish	> 0,1 mg/l
Chronic NOEC for Crustacea	> 0,1 mg/l
12.2. Persistence and degradability	
Xylene	
Solubility in water	100 - 1000 mg/l
	100 - 1000 mg/l
Solubility in water Rapidly degradable	100 - 1000 mg/l
Solubility in water Rapidly degradable Acetone	100 - 1000 mg/l
Solubility in water Rapidly degradable	100 - 1000 mg/l
Solubility in water Rapidly degradable Acetone Rapidly degradable	100 - 1000 mg/l
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether	J
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether Solubility in water	100 - 1000 mg/l 1000 - 10000 mg/l
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether	J
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether Solubility in water Rapidly degradable	J
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether Solubility in water Rapidly degradable 2-Methoxy-1-Methylethyl Acetate	J
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether Solubility in water Rapidly degradable	1000 - 10000 mg/l
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether Solubility in water Rapidly degradable 2-Methoxy-1-Methylethyl Acetate Solubility in water Rapidly degradable	1000 - 10000 mg/l
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether Solubility in water Rapidly degradable 2-Methoxy-1-Methylethyl Acetate Solubility in water Rapidly degradable Xylene (ortho-)	1000 - 10000 mg/l
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether Solubility in water Rapidly degradable 2-Methoxy-1-Methylethyl Acetate Solubility in water Rapidly degradable	1000 - 10000 mg/l
Solubility in water Rapidly degradable Acetone Rapidly degradable Ethylene Glycol Monobutyl Ether Solubility in water Rapidly degradable 2-Methoxy-1-Methylethyl Acetate Solubility in water Rapidly degradable Xylene (ortho-)	1000 - 10000 mg/l



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SECTION 12. Ecological information/	>>	
Toluene		
Solubility in water	100 - 1000 mg/l	
Rapidly degradable	100 - 1000 mg/i	
Rapidly degradable		
Xylene (mixture of isomers)		
Rapidly degradable		
Rapidly degradable		
n-Butyl Acetate		
Solubility in water	> 10000 mg/l	
Rapidly degradable	> 10000 mg/r	
Rapidly degladable		
BTC Methoxy Propyl Acetate (MPA)		
Solubility in water	> 10000 mg/l	
Rapidly degradable	2 10000 mg/i	
Rapidly degradable		
Ethylbenzene		
Solubility in water	1000 - 10000 mg/l	
Rapidly degradable	Toolo Tooloo Ing/I	
N-BUTYL ACETATE		
Solubility in water	1000 - 10000 mg/l	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes,	cyclics <2% aromatics	
Rapidly degradable	, ,	
, , , ,		
12.3. Bioaccumulative potential		
-		
Xylene		
Partition coefficient: n-octanol/water	3,12	
BCF	25,9	
Acetone		
Partition coefficient: n-octanol/water	-0,23	
BCF	3	
Ethylene Glycol Monobutyl Ether		
Partition coefficient: n-octanol/water	0,81	
2-Methoxy-1-Methylethyl Acetate		
Partition coefficient: n-octanol/water	1,2	
Toluene		
Partition coefficient: n-octanol/water	2,73	
BCF	90	
n-Butyl Acetate		
Partition coefficient: n-octanol/water	1,2	
BTC Methoxy Propyl Acetate (MPA)		
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	
40.4 Makilitain a - "		
12.4. Mobility in soil		
Xylene		
Partition coefficient: soil/water	2,73	
N-BUTYL ACETATE		
Partition coefficient: soil/water	< 3	
Farmon coencient. Son/water	C C	



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SECTION 12. Ecological information ... / >>

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

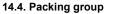
ADR / RID, IMDG, IATA: 1263

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	



ADR / RID, IMDG, IATA:

14.5. Environmental hazards

NO
NO
NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: 163, 3	367, 640D, 650	
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 353
	Special provision:	A3, A72, A192	

14.7. Maritime transport in bulk according to IMO instruments

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Information not relevant

SECTION 15. Regu	latory information	ation			
15.1. Safety, health and e	nvironmental regul	ations/legislation specific fo	r the substance or mixtu	ıre	
Seveso Category - Direc	tive 2012/18/EU:	P5c			
Restrictions relating to the <u>Product</u>	he product or contair	ned substances pursuant to Ar	nex XVII to EC Regulation	<u>n 1907/2006</u>	
Point <u>Contained substance</u>	3 - 40				
Point	75				
Point			- /		
	R	REACH Reg.: 01-2119471310-5	51		
Regulation (EU) 2019/11 not applicable	48 - on the marketir	ng and use of explosives precu	<u>rsors</u>		
<u>Substances in Candidate</u> On the basis of available		<u>H)</u> loes not contain any SVHC in p	percentage ≥ than 0,1%.		
<u>Substances subject to a</u> None	uthorisation (Annex)	<u>XIV REACH)</u>			
<u>Substances subject to e</u> None	xportation reporting	pursuant to Regulation (EU) 64	<u> 19/2012:</u>		
<u>Substances subject to the</u> None	<u>ne Rotterdam Conve</u>	ntion:			
<u>Substances subject to the</u> None	ne Stockholm Conve	ntion:			
	Ũ	st not undergo health checks, p modest and that the 98/24/EC		-assessment data prove t	that the risks
15.2. Chemical safety ass	essment				
A chemical safety asses	sment has not been	performed for the preparation/f	or the substances indicate	ed in section 3.	
SECTION 16. Othe	r information				
Text of hazard (H) indica	tions mentioned in s	ection 2-3 of the sheet:			
Flam. Liq. 2 Flam. Liq. 3		liquid, category 2 liquid. category 3			

Fiain. Liy. 2	
Flam. Liq. 3	Flammable liquid, category 3
Flam. Sol. 2	Flammable solid, category 2
Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
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
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
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SECTION 16. Other information ... / >>

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

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

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 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)



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SECTION 16. Other information ... / >>

- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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.