W508 - CERAMIC BASED SHIELD 400 ml AMBRO-SOL

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Safety Data Sheet According to Annex II to REACH - Regulation 2015/830 SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier W508 Code. Product name **CERAMIC BASED SHIELD 400 ml AMBRO-SOL** UFI · XF60-W0DK-X00F-8NDC 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Aerosol ceramic anti-adhesive. **Identified Uses** Industrial Professional Consumer Consumer Industrial Use **Professional Use** 1.3. Details of the supplier of the safety data sheet AMBRO-SOL S.R.L. Name Full address Via per Pavone del Mella n.21 25020 Cigole (BS) District and Country Italia +39 030 9959674 Tel +39 030 959265 Fax e-mail address of the competent person responsible for the Safety Data Sheet quality@ambro-sol.com 1.4. Emergency telephone number IT - Centro Antiveleni e Centro Nazionale di Informazione Tossicologica: Tel. 0382 For urgent inquiries refer to 24444 (IRCCS Fondazione Salvatore Maugeri - Pavia) IT - Centro Antiveleni di Milano: Tel. 02 66101029 (Ospedale Niguarda Ca' Granda -Milano) IT - Centro Antiveleni di Roma: Tel. 06 3054 343 (Policlinico Universitario A. Gemelli IRCCS - Roma) IT - Centro Antiveleni di Bergamo: Tel. 800 883300 (ASST Papa Giovanni XXIII -Bergamo) IT - Centro Antiveleni di Firenze: Tel. 055 794 7819 (Azienda Ospedaliera Universitaria Careggi - Firenze) IT - Centro Antiveleni di Napoli: Tel. 081 5453333 (Azienda Ospedaliera A. Cardarelli - Napoli) AT - Vergiftungsinformationszentrale (VIZ): Tel. +43 01 406 4343 (Austria) BE - Belgisch Antigifcentrum: Tel. 070 245245 (Belgium) ВС - НАЦИОНАЛЕН ЦЕНТЪР ПО ТОКСИКОЛОГИЯ: Tel. +359 2 9154 233 (Bulgaria) HR - Centar za kontrolu otrovanja: Tel. +385 1 2348342 (Croatia) CY - Τμήμα Επιθεώρησης Εργασίας (TEE): Tel. 1401 (Cyprus) CZ - Toxikologické informační středisko (TIS): Tel. +420 224 919 293 or +420 224 915 402 (Czech Republic) DK - Giftlinjen: Ring 82 12 12 12 (Denmark) EE - Mürgistusteabekeskus: Tel. 16662 (Estonia) FI - Myrkytystietokeskus: Tel. 0800 147 111 or 09 471 977 (Finland) FR - ORFILA (INRS): Tél. +33 (0) 1 45 42 59 59 (France) DE - Giftnotruf der Charité Universitätsmedizin Berlin: Tel. +49 030 19240 (Germany) GR - Κέντρο Δηλητηριάσεων: Τηλ. 210 7793777 (Greece) HU - Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ): Tel. +36 80 20 1199 (Hungary) IS - Eitrunarmiðstöð: Tel. 543 2222 (Iceland) IE - National Poisons Information Centre (NPIC): Tel. 01 8092566 or 01 8379964 (Republic of Ireland)

ΕN

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LV - Latvian Poisons Information Centre: Tel. +371 67042473 (Latvia)LT -Apsinuodijimų Informacijos biuras: Tel. 8-5 236 2052 (Lithuania) LU - Giftinformationszentrum: Tel. +352 8002 5500 (Luxembourg) NL - Nationaal Vergiftigingen Informatie Centrum (NVIC): Tel. 030 274 88 88

NL - Nationaal Vergiftigingen Informatie Centrum (NVIC): Tel. 030 274 88 88 (Netherlands)

NO - Giftinformasjonen: Tel. 22 9 13 00 (Norway)

PL - Pomorskie Centrum Toksykologii: Tel. +58 682 04 04 (Poland)

PT - Centro de Informação Antivenenos (CIAV): Tel. 800 250 250 (Portugal)

RO - Biroul RSI Si Informare Toxicologica: Tel. 021 318 36 06 (Romania)

SK - Národné Toxikologické informačné centrum (NTIC): Tel. 02 5477 4166 (Slovakia)

SI - Center za klinično toksikologijo in farmakologijo: Tel. 112 (Slovenia) ES - Servicio de Información Toxicológica (SIT) España: Tel.+34 91 562 04 20 (Spain)

SE - Giftinformationscentralen: Tel. 112 (Sweden)

CH - Schweizerisches Toxikologisches Informationszentrum (STIZ): Tel. +41 145 (Switzerland)

TR - UZEM: Tel. 114 (Turkey)

GB - National Poisons Information Service (NPIS) Tel. 0344 892 0111 (United Kingdom)

Members of the Public: NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales)

USA - American Association of Poison Control Centers: Tel. 1 800 222 1222 (U.S.A.)

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 2015/830.

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:		
Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Eye irritation, category 2	H319	Causes serious eye irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.

2.2. Label elements

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

Hazard pictograms:



Signal words:	Danger
Hazard statements:	
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements:	
D040	Kann annan farma bart bat annfarra an aile an an flannan and athraiting a

P210 P251 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use.

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SECTION 2. Hazards identification ... / >>

P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.
P211	Do not spray on an open flame or other ignition source.
P102	Keep out of reach of children.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P201	Avoid breathing dust / fume / gas / mist / vapours / spray.
Contains:	Acetone

Acetone N-butyl acetate Methyl acetate

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%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Acetone		
CAS	67-64-1 51 ≤ x < 55	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	200-662-2	
INDEX	606-001-00-8	
Reg. no.	01-2119471330-49-XXXX	
Propane		
CAS	7 4-98-6 19 ≤ x < 23	Flam. Gas 1A H220, Press. Gas (Liq.) H280,
		Classification note/notes according to Annex VI to the CLP Regulation: U
EC	200-827-9	
INDEX	601-003-00-5	
Reg. no.	01-2119486944-21-0046	
Butane CAS	106.07.9 0 < x < 11	Elem Geo 14 H220 Broos Geo /Lig \ H290
CAS	<i>106-97-8</i> 9≤x< 11	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note/notes according to Annex VI to the CLP Regulation: C U
EC	203-448-7	
INDEX	601-004-00-0	
Reg. no.	01-2119474691-32-XXXX	
Titanium dio		
CAS	13463-67-7 5≤x<7	
EC	236-675-5	
INDEX		
Reg. no.	01-2119489379-17-XXXX	
N-butyl aceta	te	
CAS	123-86-4 3≤x< 5	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1	
INDEX	607-025-00-1	
Reg. no.	01-2119485493-29-XXXX	
Methyl aceta		
CAS EC	79-20-9 1≤x< 3	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
INDEX	201-185-2 607-021-00-X	
Reg. no.	01-2119459211-47-XXXX	
Isobutane	01-2119439211-41-2222	
CAS	75-28-5 1≤x< 3	Flam. Gas 1A H220, Press. Gas H280
EC	200-857-2	
INDEX	601-004-00-0	
Reg. no.	01-2119485395-27-XXXX	
	methylethyl acetate	
CAS	108-65-6 0 ≤ x < 0,5	Flam. Liq. 3 H226
EC	203-603-9	
INDEX	607-195-00-7	
Reg. no.	01-2119475791-29-XXXX	

EPY 10.3.0 - SDS 1004.13

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SECTION 3. Composition/information on ingredients/>>

Methanol CAS	67-56-1 0 ≤ x < 0,5	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370
EC	200-659-6	
INDEX	603-001-00-X	
Reg. no.	01-2119433307-44-XXXX	
Xylene (mixt	ure of isomers)	
CAS	1330-20-7 0 ≤ x < 0,5	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315,
		Classification note/notes according to Annex VI to the CLP Regulation: C
EC	215-535-7	
INDEX	601-022-00-9	
Reg. no.	01-2119488216-32-XXXX	
Ethylbenzen	e	
CAS	<i>100-41-4</i> 0 ≤ x < 0,5	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373
EC	202-849-4	
INDEX	601-023-00-4	
Reg. no.	01-2119489370-35-XXXX	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants. Percentage of propellants: 30,50 %

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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 The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. 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.

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).

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. 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

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙ∆Α ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	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 2020

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hreshold Limit V	(alua			Ac	etone				
Type	Country	TWA/8h		STEL/15n	ain	Pomarka	/ Observations		
туре	Country	mg/m3	ppm	mg/m3	ppm	Remarks	Observations		
AGW	DEU	1200	500	2400 (C)	1000 (C)				
MAK	DEU	1200	500	2400	1000				
VLEP	FRA	1210	500	2420	1000				
TLV	GRC	1780		3560					
VLEP	ITA	1210	500						
VLE	PRT	1210	500						
NDS/NDSCh	POL	600		1800					
WEL	GBR	1210	500	3620	1500				
OEL	EU	1210	500						
TLV-ACGIH			250		500				
redicted no-effe	ct concentra	ation - PNE	C						
Normal value ir	fresh water						10,6	mg/l	
Normal value ir	marine wate	ər					1,06	mg/l	
Normal value for	or fresh wate	r sediment					30,4	mg/kg	
Normal value for	or marine wat	ter sediment	1				3,04	mg/kg	
Normal value for	or water, inte	rmittent relea	ase				21	mg/l	
Normal value of	f STP microc	organisms					100	mg/l	
Normal value for	or the food ch	nain (second	ary poisoni	ng)			29,5	mg/kg	
Normal value for	or the terrestr	rial compartr	nent				29,5	mg/kg/d	
Normal value for	or the atmosp	ohere					NPI		
ealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	umers			Effects on v	vorkers		
Route of expos	ure Acu	te Aci	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral				VND	62				
					mg/kg				
Inhalation				VND	200	VND	2,420	VND	1,210
					mg/m3		mg/m3		mg/m3
Skin				VND	62			VND	186
					mg/kg				mg/kg

					Pi	ropane								
٦	Threshold Limit Value													
	Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations							
			mg/m3	ppm	mg/m3	ppm								
	AGW	DEU	1800	1000	7200	4000								
	MAK	DEU	1800	1000	7200	4000								
	VLA	ESP		1000										
	TLV	GRC	1800	1000										
	NDS/NDSCh	POL	1800											

	Butane												
Threshold Limit Value													
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations							
		mg/m3	ppm										
AGW	DEU	2400	1000	9600	4000								
MAK	DEU	2400	1000	9600	4000								
VLA	ESP		1000			Gases							
VLEP	FRA	1900	800										
TLV	GRC	2350	1000										
NDS/NDSCh	POL	1900		3000									
WEL	GBR	1450	600	1810	750								
WEL	GBR		4			RESP							
TLV-ACGIH					1000								

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hreshold Limit \	/aluo			intaint	um dioxide				
Type	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
туре	Country	mg/m3	ppm	mg/m3	ppm	Remarks /	Observations		
VLA	ESP	10	ppin	ilig/ilio	ppin				
VLEP	FRA	10							
TLV	GRC	10	10						
NDS/NDSCh	POL	10	10			INHAL			
WEL	GBR	10				INHAL			
WEL	GBR	4				RESP			
TLV-ACGIH	GDR	10				NEOF			
Predicted no-effe	ot concentrat		C						
Normal value ir			C				184	ug/l	
								µg/l	
Normal value in							18,4	µg/l	
Normal value for							1000	mg/kg/d	
Normal value for							100	mg/kg/d	
Normal value for							100	mg/kg/d	
lealth - Derived									
		ts on cons			- · ·	Effects on wo			
Route of expos			ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	sys	stemic	local	systemic	local	systemic	local	systemic
Oral					700				
					mg/kg bw/d			10	
				N-but	yl acetate				
Threshold Limit N Type	/alue Country	TWA/8h		STEL/15	min	Remarks /	Observations		
Туре	Country	mg/m3	ppm	STEL/15 mg/m3	min ppm	Remarks /	Observations		
Type AGW	Country	mg/m3 300	62	STEL/15 mg/m3 600 (C)	min ppm 124 (C)	Remarks /	Observations		
Type AGW VLA	Country DEU ESP	mg/m3 300 724	62 150	STEL/15 mg/m3 600 (C) 965	min ppm 124 (C) 200	Remarks /	Observations		
Type AGW VLA VLEP	Country DEU ESP FRA	mg/m3 300 724 710	62 150 150	STEL/15 mg/m3 600 (C) 965 940	min ppm 124 (C) 200 200	Remarks /	Observations		
Type AGW VLA VLEP TLV	Country DEU ESP FRA GRC	mg/m3 300 724 710 710	62 150	STEL/15 mg/m3 600 (C) 965 940 950	min ppm 124 (C) 200	Remarks /	Observations		
Type AGW VLA VLEP TLV NDS/NDSCh	Country DEU ESP FRA GRC POL	mg/m3 300 724 710 710 240	62 150 150 150	STEL/15 mg/m3 600 (C) 965 940 950 720	min ppm 124 (C) 200 200 200	Remarks /	Observations		
Type AGW VLA VLEP TLV NDS/NDSCh WEL	Country DEU ESP FRA GRC POL GBR	mg/m3 300 724 710 710 240 724	62 150 150 150 150	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200	Remarks /	Observations		
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL	Country DEU ESP FRA GRC POL	mg/m3 300 724 710 710 240	62 150 150 150 150 150 50	STEL/15 mg/m3 600 (C) 965 940 950 720	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	Observations		
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH	Country DEU ESP FRA GRC POL GBR EU	mg/m3 300 724 710 710 240 724 241	62 150 150 150 150 50 50	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200	Remarks /	Observations		
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe	Country DEU ESP FRA GRC POL GBR EU	mg/m3 300 724 710 710 240 724 241	62 150 150 150 150 50 50	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /			
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value ir	Country DEU ESP FRA GRC POL GBR EU	mg/m3 300 724 710 710 240 724 241 ion - PNE	62 150 150 150 150 50 50	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	180	hâ\j	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value ir Normal value ir	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water	mg/m3 300 724 710 710 240 724 241 ion - PNE	62 150 150 150 150 50 50	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	180 18	µg/l	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value ir Normal value for	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water marine water or fresh water so	mg/m3 300 724 710 710 240 724 241 ion - PNE	62 150 150 150 150 50 50 50	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	180 18 981	μg/l μg/kg/d	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value in Normal value fo	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water marine water or fresh water so	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment	62 150 150 150 150 50 50 50	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	180 18 981 98,1	μg/l μg/kg/d μg/kg/d	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value in Normal value of Normal value of	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water so fresh water so fresh water so fresh water so	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment r sediment	62 150 150 150 50 50 C	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	180 18 981 98,1 35,6	μg/l μg/kg/d μg/kg/d mg/l	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value in Normal value fo Normal value o Normal value o	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water or fresh water or marine water for fresh water for fresh water for fresh water for marine water for marine water for marine water	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment r sediment ganisms al comparti	62 150 150 150 50 50 C	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	180 18 981 98,1	μg/l μg/kg/d μg/kg/d	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value in Normal value fo Normal value o Normal value o	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water or fresh water or marine water for fresh water for fresh water for fresh water for marine water for marine water for marine water	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment r sediment ganisms al comparti	62 150 150 150 50 50 C	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	180 18 981 98,1 35,6	μg/l μg/kg/d μg/kg/d mg/l	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value in Normal value fo Normal value o Normal value o	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water or fresh water for marine water	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment r sediment ganisms al comparti	62 150 150 150 50 50 C t t ment DMEL	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150	Remarks /	180 18 981 98,1 35,6 90,3	μg/l μg/kg/d μg/kg/d mg/l	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value in Normal value fo Normal value o Normal value o	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water or fresh water or marine water for fresh water for fresh water for marine water for the terrestria	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment ganisms al compartu I - DNEL / ts on cons	62 150 150 150 50 50 C t t ment DMEL	STEL/15 mg/m3 600 (C) 965 940 950 720 966	min ppm 124 (C) 200 200 200 200 200 150		180 18 981 98,1 35,6 90,3	μg/l μg/kg/d μg/kg/d mg/l	Chronic
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value in Normal value fo Normal value o Normal value o Normal value o	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water or fresh water or marine water for fresh water for fresh water for marine water for the terrestria	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment ganisms al compartu I - DNEL / ts on cons	62 150 150 150 50 50 C t ment DMEL umers	STEL/15 mg/m3 600 (C) 965 940 950 720 966 723	min ppm 124 (C) 200 200 200 200 150 150	Effects on wo	180 18 981 98,1 35,6 90,3 prkers	μg/l μg/kg/d μg/kg/d mg/l μg/kg/d	Chronic systemic
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value in Normal value fo Normal value o Normal value o Normal value o	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water or fresh water or marine water for fresh water for fresh water for marine water for the terrestria	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment ganisms al compartu I - DNEL / ts on cons	62 150 150 50 50 50 C t ment DMEL umers sute	STEL/15 mg/m3 600 (C) 965 940 950 720 966 723	min ppm 124 (C) 200 200 200 200 150 150	Effects on wo	180 18 981 98,1 35,6 90,3 prkers Acute	μg/l μg/kg/d μg/kg/d mg/l μg/kg/d Chronic	
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water or fresh water or marine water for fresh water for fresh water for marine water for the terrestria	mg/m3 300 724 710 240 724 241 ion - PNE sediment r sediment ganisms al compartu I - DNEL / ts on cons e Ac sys 2	62 150 150 50 50 50 C t ment DMEL umers sute	STEL/15 mg/m3 600 (C) 965 940 950 720 966 723	min ppm 124 (C) 200 200 200 150 150 150	Effects on wo	180 18 981 98,1 35,6 90,3 prkers Acute systemic	μg/l μg/kg/d μg/kg/d mg/l μg/kg/d Chronic	systemic
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water or fresh water or marine water for fresh water for fresh water for marine water for the terrestria	mg/m3 300 724 710 240 724 241 ion - PNE sediment r sediment ganisms al compartu I - DNEL / ts on cons e Ac sys 2	62 150 150 150 50 50 50 C C MEL umers stemic g/kg bw/d	STEL/15 mg/m3 600 (C) 965 940 950 720 966 723	min ppm 124 (C) 200 200 200 150 150 150	Effects on wo	180 18 981 98,1 35,6 90,3 prkers Acute systemic	μg/l μg/kg/d μg/kg/d mg/l μg/kg/d Chronic	systemic
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value fo Normal value for	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water for fresh water for fresh water for marine water for marine water for marine water for marine water for the terrestria no-effect level Effect sure Acute local	mg/m3 300 724 710 240 724 241 ion - PNE sediment r sediment r sediment r sediment r sediment ts on cons se Acc sys 2 mg 300	62 150 150 150 50 50 50 C C C C C C C C	STEL/15 mg/m3 600 (C) 965 940 950 720 966 723	min ppm 124 (C) 200 200 200 150 150 150 Chronic systemic 2 mg/kg bw/d 12	Effects on work Acute local	180 18 981 98,1 35,6 90,3 orkers Acute systemic 2	µg/l µg/kg/d µg/kg/d mg/l µg/kg/d Chronic local	systemic 2 48
Type AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value fo Normal value fo Normal value o Normal value fo Normal value o Normal value fo Normal value o Normal value o Normal value o Normal value of Normal value of expose Oral	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water or fresh water for fresh water for marine water for fresh water for the terrestria no-effect level Effect ure Acute local	mg/m3 300 724 710 240 724 241 ion - PNE sediment r sediment r sediment r sediment r sediment ts on cons se Acc sys 2 mg 300	62 150 150 150 50 50 50 C	STEL/15 mg/m3 600 (C) 965 940 950 720 966 723	min ppm 124 (C) 200 200 200 200 150 150 150 Chronic systemic 2 mg/kg bw/d 12 mg/m3	Effects on wo Acute local	180 18 981 98,1 35,6 90,3 prkers Acute systemic 2 600	µg/l µg/kg/d µg/kg/d mg/l µg/kg/d Chronic local 300 mg/m3	systemic 2
AGW VLA VLEP TLV NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effe Normal value in Normal value fo Normal value fo Normal value o Normal value fo Normal value for	Country DEU ESP FRA GRC POL GBR EU ect concentration fresh water for fresh water for fresh water for marine water for marine water for marine water for marine water for the terrestria no-effect level Effect sure Acute local	mg/m3 300 724 710 710 240 724 241 ion - PNE sediment r sediment r sediment I - DNEL / ts on cons Acc sys 2 mg 30 30 6	62 150 150 150 50 50 50 C C C C C C C C	STEL/15 mg/m3 600 (C) 965 940 950 720 966 723	min ppm 124 (C) 200 200 200 150 150 150 Chronic systemic 2 mg/kg bw/d 12	Effects on work Acute local	180 18 981 98,1 35,6 90,3 prkers Acute systemic 2 600 mg/m3	µg/l µg/kg/d µg/kg/d mg/l µg/kg/d Chronic local	systemic 2 48 mg/m3

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SECTION 8. Exposure controls/personal protection/>>

Skin

NPI

NPI

NPI

320

mg/kg bw/d

NPI

NPI

NPI

				Methy	l acetate				
hreshold Limit V					ain	Democriter	Ohaar		
Туре	Country	TWA/8h		STEL/15n		Remarks /	Observations		
AGW	DEU	mg/m3 620	ppm 200	mg/m3	ppm				
MAK	DEU	310	100	1240 (C) 1240	400 (C) 400				
VLA	ESP	616	200	770	250				
VLEP	FRA	610	200	760	250	SKIN			
TLV	GRC	610	200	760	250				
NDS/NDSCh	POL	250		600					
WEL	GBR	616	200	770	250				
TLV-ACGIH		606	200	757	250				
Predicted no-effect		ion - PNE	C						
Normal value in							120	µg/l	
Normal value in							12	µg/l	
lealth - Derived n									
		s on consu		- · ·		Effects on w			- · ·
Route of exposu				Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local		stemic	local	systemic	local	systemic	local	systemic
Oral		NP	1		44				
			_		mg/kg bw/d				
Inhalation	VND	VN	D	152		VND	VND	305	610
				mg/m3				mg/m3	mg/m3
Skin				NPI	44	NPI	VND	NPI	88
					mg/kg bw/d				mg/kg
									bw/d
				Isol	butane				
hreshold Limit V	alue								
Туре	Country	TWA/8h		STEL/15n	nin	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH			800						
				2-methoxy-1-me	ethylethyl ace	etate			
Threshold Limit V	alue								
Туре	Country	TWA/8h		STEL/15n	nin	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
VLA	ESP	275	50	550	100	SKIN			
VLEP	FRA	275	50	550	100	SKIN			
TLV	GRC	275	50	550	100				
VLEP	ITA	275	50	550	100	SKIN			
VLE	PRT	275	50	550	100	SKIN			
NDS/NDSCh	POL	260		520		SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	274	50	550	100	SKIN			
Predicted no-effec				550	100	UNIN			
		IUII - FINE					635	ug/l	
Normal value in								µg/l	
Normal value in							63,5	µg/l	
	ureso water o						3,29	mg/kg/d	
Normal value for							329	µg/kg/d	
Normal value for	r marine wate		t						
Normal value for Normal value of	r marine wate STP microorg	ganisms					100	mg/l	
Normal value for	r marine wate STP microorg	ganisms					100 290	µg/kg soil	
Normal value for Normal value of Normal value for	r marine wate STP microorg r the terrestria	ganisms Il compartr	nent					•	
Normal value for Normal value of Normal value for	r marine wate STP microorg r the terrestria	ganisms Il compartr	nent					µg/kg soil	
Normal value for Normal value of Normal value for	r marine wate STP microorg r the terrestria o-effect level	ganisms Il compartr	ment DMEL			Effects on w	290	µg/kg soil	
Normal value for Normal value of Normal value for	r marine wate STP microorg r the terrestria o-effect level Effect	ganisms al compartr I - DNEL / is on consu	ment DMEL umers	Chronic	Chronic	Effects on w Acute	290	µg/kg soil	Chronic
Normal value for Normal value of Normal value for Health - Derived n	r marine wate STP microorg r the terrestria o-effect level Effect	ganisms al compartr I - DNEL / is on consu e Acu	ment DMEL umers ute	Chronic			290 orkers Acute	μg/kg soil dw	
Normal value for Normal value of Normal value for Health - Derived n Route of exposu	r marine wate STP microorg r the terrestria o-effect level Effect ire Acute	ganisms al compartr I - DNEL / is on consu e Acu sys	ment DMEL umers ute stemic		Chronic systemic 36	Acute	290 orkers	µg/kg soil dw Chronic	Chronic systemic
Normal value for Normal value of Normal value for Health - Derived n	r marine wate STP microorg r the terrestria o-effect level Effect ire Acute	ganisms al compartr I - DNEL / is on consu e Acu	ment DMEL umers ute stemic		systemic 36	Acute	290 orkers Acute	µg/kg soil dw Chronic	
Normal value for Normal value of Normal value for Iealth - Derived n Route of exposu	r marine wate STP microorg r the terrestria o-effect level Effect ure Acute local	ganisms I compartr I - DNEL / Is on consu Son consu Act Sys NP	nent DMEL umers ute stemic I	local	systemic 36 mg/kg bw/d	Acute local	290 orkers Acute systemic	µg/kg soil dw Chronic local	systemic
Normal value for Normal value of Normal value for Health - Derived n Route of exposu	r marine wate STP microorg r the terrestria o-effect level Effect ire Acute	ganisms al compartr I - DNEL / is on consu e Acu sys	nent DMEL umers ute stemic I		systemic 36	Acute	290 orkers Acute	µg/kg soil dw Chronic	

@EPY 10.3.0 - SDS 1004.13

796

mg/kg bw/d

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mg/kg bw/d

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				Meth	yl formate				
Threshold Limit V	alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
· ·		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		246	100	0	••				
Predicted no-effect	ct concentra	ation - PNEC	;						
Normal value in	fresh water						115	µg/l	
Normal value in	marine wate	er					11,5	µg/l	
Health - Derived n	o-effect leve	el - DNEL / I	OMEL					. 0	
	Effe	cts on consu	mers			Effects on w	/orkers		
Route of exposu	ire Acut	te Acı	te	Chronic	Chronic	Acute	Acute	Chronic	Chronic
· ·	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Inhalation					14,29		VND		
					mg/m3				
Skin					0	VND	VND	NPI	
				Me	ethanol				
Threshold Limit V	alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
	-	mg/m3	ppm	mg/m3	ppm				
				1000		A 1/(1) 1			

Type	Country	10070011		OTEL/10		rtemante / e	boorvations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	270	200	1080	800	SKIN			
MAK	DEU	130	100	260	200	SKIN			
VLA	ESP	266	200			SKIN			
VLEP	FRA	260	200	1300	1000	SKIN	11		
TLV	GRC	260	200	325	250				
VLEP	ITA	260	200			SKIN			
VLE	PRT	260	200			SKIN			
NDS/NDSCh	POL	100		300		SKIN			
WEL	GBR	266	200	333	250	SKIN			
OEL	EU	260	200						
TLV-ACGIH		262	200	328	250	SKIN			
Predicted no-effe	ct concentra	ation - PNEC	3						
Normal value ir	n fresh water						20,8	mg/l	
Normal value ir	n marine wate	er					2,08	mg/l	
Normal value for	or fresh wate	r sediment					77	mg/kg/d	
Normal value for	or marine wat	ter sediment					7,7	mg/kg/d	
Normal value for	or water, inte	rmittent relea	ase				1,54	g/l	
Normal value o	f STP microc	organisms					100	mg/l	
Normal value for	or the terrestr	rial compartn	nent				100	mg/kg/d	
Health - Derived I	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	mers			Effects on wor	kers		
Route of expos	ure Acu	te Acı	ıte	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	ıl sys	temic	local	systemic	local	systemic	local	systemic
Oral		8			8				
		mg	/kg bw/d		mg/kg bw/d				
Inhalation	50	50		50	50	260	260	260	260
	mg/	m3 mg	/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin		8			8		40		40

mg/kg bw/d

mg/kg

bw/d

mg/kg

bw/d

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				Xylene (mix	ture of isomer	s)			
reshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	440	100	880	200	SKIN			
MAK	DEU	440	100	880	200	SKIN			
VLA	ESP	221	50	442	100	SKIN			
VLEP	FRA	221	50	442	100	SKIN			
TLV	GRC	435	100	650	150				
VLEP	ITA	221	50	442	100	SKIN			
VLE	PRT	221	50	442	100	SKIN			
NDS/NDSCh	POL	100		200		SKIN			
WEL	GBR	220	50	441	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				
edicted no-effe			С						
Normal value in fresh water						327	µg/l		
Normal value in marine water						327	µg/l		
Normal value for							12,46	mg/kg/d	
Normal value for	or marine wa	iter sedimen	t				12,46	mg/kg/d	
Normal value o							6,58	mg/l	
Normal value for							2,31	mg/kg/d	
ealth - Derived r	no-effect lev	/el - DNEL /	DMEL						
		ects on cons	umers			Effects on w	orkers		
Route of expos	ure Acı	ite Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral					1,6 mg/kg bw/d				
Inhalation					14,8			289	77
					mg/m3			mg/m3	mg/m3
Skin					108			_	180
					mg/kg bw/d				mg/kg
									bw/d

bw/d

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				Ethy	lbenzene				
hreshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	88	20	176	40	SKIN			
MAK	DEU	88	20	176	40	SKIN			
VLA	ESP	441	100	884	200	SKIN			
VLEP	FRA	88,4	20	442	100	SKIN			
TLV	GRC	435	100	545	125				
VLEP	ITA	442	100	884	200	SKIN			
VLE	PRT	442	100	884	200	SKIN			
NDS/NDSCh	POL	200		400		SKIN			
WEL	GBR	441	100	552	125	SKIN			
OEL	EU	442	100	884	200	SKIN			
TLV-ACGIH		87	20						
redicted no-effe	ct concentra	ation - PNE	С						
Normal value in	n fresh water						100	µg/l	
Normal value in marine water 55 µg/l									
Normal value for	or fresh wate	r sediment					13,7	mg/kg/d	
Normal value for	or marine wa	ter sedimen	t				1,37	mg/kg/d	
Normal value for	or water, inte	rmittent rele	ase				55	µg/l	
Normal value of	f STP microc	organisms					9,6	mg/l	
Normal value for	or the food ch	nain (second	lary poisonii	ng)			20	mg/kg	
Normal value for				0,			2,68	mg/kg/d	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral		NF			1,6		,		1,6
					mg/kg bw/d				
Inhalation	NPI	VN	ID	NPI	15	293	VND	NPI	77
					mg/m3	mg/m3			mg/m3
Skin		NF	7		NPI	NPI	NPI	NPI	180
									mg/kg
									bw/d

Ethanol

Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	380	200	1520	800				
MAK	DEU	380	200	1520	800				
VLA	ESP			1910	1000				
VLEP	FRA	1900	1000	9500	5000				
TLV	GRC	1900	1000						
NDS/NDSCh	POL	1900							
WEL	GBR	1920	1000						
TLV-ACGIH				1884	1000				
Predicted no-effe	ct concentr	ation - PNE	C						
Normal value in	fresh water						960	µg/l	
Normal value in	marine wat	er					790	µg/l	
Normal value for	or fresh wate	r sediment					3,6	mg/kg/d	
Normal value for	or marine wa	ter sedimen	it				2,9	mg/kg/d	
Normal value for	or water, inte	rmittent rele	ease				2,75	mg/l	
Normal value of	f STP microo	organisms					580	mg/l	
Normal value for	or the food cl	nain (secon	dary poisoni	ng)			380	mg/kg	
Normal value for	or the terrest	rial compart	ment				630	µg/kg/d	
Health - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	ects on cons	umers			Effects on w	orkers		
Route of expos	ure Acu	ite Ac	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sy	stemic	local	systemic	local	systemic	local	systemic
Oral		NF	기		87		•		87
					mg/kg bw/d				
Inhalation	950	NF	기	NPI	114	1900	NPI	NPI	950
	mg/	′m3			mg/m3	mg/m3			mg/m3
Skin	NPI		ין	NPI	206	NPI	NPI	NPI	343
					mg/kg bw/d				mg/kg
					00				bw/d

@EPY 10.3.0 - SDS 1004.13

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				Prop	ban-2-ol				
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / 0	Observations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	500	200	1000	400				
MAK	DEU	500	200	1000	400				
VLA	ESP	500	200	1000	400				
VLEP	FRA			980	400				
TLV	GRC	980	400	1225	500				
NDS/NDSCh	POL	900		1200		SKIN			
WEL	GBR	999	400	1250	500				
TLV-ACGIH		492	200	983	400				
Predicted no-effe	ct concentra	ation - PNE	C						
Normal value in	n fresh water						140,9	mg/l	
Normal value in	n marine wate	er					140,9	mg/l	
Normal value for	or fresh wate	r sediment					552	mg/kg/d	
Normal value for	or marine wat	ter sediment					552	mg/kg/d	
Normal value for	or water, inter	rmittent relea	ase				140,9	mg/l	
Normal value of	f STP microc	organisms					2,251	g/l	
Normal value for	or the food ch	nain (second	ary poisoni	ng)			160	mg/kg	
Normal value for	or the terrestr	rial compartr	nent				28	mg/kg/d	
Health - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	umers			Effects on wo	orkers		
Route of expos	ure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	ıl sys	temic	local	systemic	local	systemic	local	systemic
Oral	VNE	D VN	D	VND	26 ma/ka bw/d	VND	VND	VND	VND
Inhalation	VNE	D VN	D	VND	mg/kg bw/d 89	VND	VND	VND	500
					mg/m3				mg/m3
Skin	VNE	D VN	D	VND	319	VND	VND	VND	888
					mg/kg bw/d				mg/kg

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.

8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category I 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.

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, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Value aerosol colourless characteristic of solvent Information

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SECTION 9. Physical and chemical properties ... / >>

Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	< 0 °C
Evaporation Rate	Not available
Flammability of solids and gases	flammable gas
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,73 g/ml
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	not applicable
Oxidising properties	not applicable
9.2. Other information	
VOC (Directive 2010/75/EC) :	90,57 % - 661,14 g/litre
VOC (volatile carbon) :	61,80 % - 451,14 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

Solvent base

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

Acetone

N-butyl acetate

Decomposes on contact with: water.

2-methoxy-1-methylethyl acetate

Stable in normal conditions of use and storage.On contact with: strong oxidising agents. With the air it may slowly develop peroxides that explode with an increase in temperature.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

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

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

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.

2-methoxy-1-methylethyl acetate

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

Xylene (mixture of isomers)

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

Ethylbenzene

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

10.4. Conditions to avoid

Avoid overheating.

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SECTION 10. Stability and reactivity/>>

Acetone

Avoid exposure to: sources of heat, naked flames.

N-butyl acetate

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

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

Acetone

Incompatible with: acids,oxidising substances.

N-butyl acetate

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

2-methoxy-1-methylethyl acetate

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

10.6. Hazardous decomposition products

Acetone

May develop: ketenes,irritant substances.

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 toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

2-methoxy-1-methylethyl acetate

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

Information on likely routes of exposure

N-butyl acetate WORKERS: inhalation; contact with the skin.

2-methoxy-1-methylethyl acetate WORKERS: inhalation; contact with the skin.

Methanol

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

Xylene (mixture of isomers) WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

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

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

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.

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).

Methanol

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

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SECTION 11. Toxicological information/>>

Xylene (mixture of isomers)

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

Ethylbenzene

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

Interactive effects

N-butyl acetate

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

Xylene (mixture of isomers)

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) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Xylene (mixture of isomers) LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) Titanium dioxide LD50 (Oral) LC50 (Inhalation) 2-methoxy-1-methylethyl acetate LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) Butane LC50 (Inhalation) Propane LC50 (Inhalation) Ethylbenzene LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) Methanol LD50 (Oral) LC50 (Inhalation) Acetone LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

> 20 mg/l >2000 mg/kg >2000 mg/kg > 3000 mg/kg rat > 1700 mg/kg rabbit 5000 ppm/4h rat > 10000 mg/kg Rat 5,12 mg/l/4h rat > 5000 mg/kg Rat > 5000 mg/kg Rat 1805,05 ppm LC0 (4 h) rat > 1442,738 mg/l/15min rat 800000 ppm 15 min 3500 mg/kg Rat 15354 mg/kg Rabbit 17,2 mg/l/4h Rat 1978 mg/kg bw rat 123,3 mg/l/4h rat

5800 mg/kg bw 7426 mg/kg bw guinea pig > 20 mg/l/4h air

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SECTION 11. Toxicological information/>>

Methyl acetate LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

N-butyl acetate LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) > 10000 mg/kg Rat > 5000 mg/kg rabbit

2000 mg/kg bw rat

49,2 mg/l/4h rabbit

6482 mg/kg rat

0,74 mg/l/4h Rat

Isobutane LC50 (Inhalation)

> 1442,738 mg/l/15min rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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 (mixture of isomers)

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

Ethylbenzene

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

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

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

12.1. Toxicity

ΕN

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SECTION 12. Ecological information ... / >>

Xylene (mixture of isomers) LC50 - for Fish EC50 - for Algae / Aquatic Plants EC10 for Crustacea Chronic NOEC for Fish Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants

Titanium dioxide EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants

2-methoxy-1-methylethyl acetate LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants

Butane LC50 - for Fish

Propane LC50 - for Fish EC50 - for Crustacea

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

Methanol LC50 - for Fish Chronic NOEC for Fish Chronic NOEC for Crustacea

Acetone LC50 - for Fish EC50 - for Crustacea Chronic NOEC for Crustacea

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

N-butyl acetate LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants

Isobutane LC50 - for Fish

12.2. Persistence and degradability

2,6 mg/l/96h 4,6 mg/l/72h 1,9 mg/l/21d 1,3 mg/l 56 days 960 µg/l 7 days 440 µg/l 73 h

26,45 mg/l/48h 100 mg/l/72h 985 µg/l 14 days 2,35 mg/l 21 days 1 mg/l 32 days

> 100 mg/l/96h
> 100 mg/l/48h
> 100 mg/l/72h
> 10 mg/l 14 days
100 mg/l
1 g/l 4 days

> 24,11 mg/l/96h

85,82 mg/l/96h 41,82 mg/l/48h

4,65 mg/l/96h 2,1 mg/l/48h 5,15 mg/l/72h 3,3 mg/l 4 days 960 µg/l 7 days 3,95 mg/l 4 days

15,4 g/l/96h 446,7 mg/l 28 days 208 mg/l 21 days

6,83 g/l 8,8 g/l/48h 1,659 g/l 28 days

300 mg/l/96h 1,027 g/l 120 mg/l/72h 120 mg/l 72 h

18 mg/l/96h 32 mg/l/48h 246 mg/l/72h 23,2 mg/l 21 days 105 mg/l 72 h

> 24,11 mg/l/96h

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SECTION 12. Ecological information ... / >>

Propane Global Warming Potential (GWP): 3. Ozone Depletion Potential (ODP): 0.					
2-methoxy-1-methylethyl acetate Easily biodegradable. It is rapidly oxidized into the air by photochemical reaction.					
Xylene (mixture of isomers) Solubility in water Rapidly degradable	146 - 208 mg/L @ 25 °C and pH 7 mg/l				
Titanium dioxide Solubility in water Degradability: information not available	< 0,001 mg/l				
2-methoxy-1-methylethyl acetate Solubility in water Rapidly degradable	> 10000 mg/l				
Butane Solubility in water Rapidly degradable	0,1 - 100 mg/l				
Propane Solubility in water Rapidly degradable	0,1 - 100 mg/l				
Ethylbenzene Solubility in water Rapidly degradable	1000 - 10000 mg/l				
Methanol Solubility in water Rapidly degradable	1000 - 10000 mg/l				
Acetone Rapidly degradable					
Methyl acetate Solubility in water Rapidly degradable	243500 mg/l				
N-butyl acetate Solubility in water Rapidly degradable	5,3 g/l				
Isobutane Rapidly degradable					
12.3. Bioaccumulative potential					
Xylene (mixture of isomers) Partition coefficient: n-octanol/water BCF	3,12 25,9				
2-methoxy-1-methylethyl acetate Partition coefficient: n-octanol/water	1,2				
Butane Partition coefficient: n-octanol/water	1,09				
Propane Partition coefficient: n-octanol/water	1,09				
Ethylbenzene Partition coefficient: n-octanol/water	3,6				

EN

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SECTION 12. Ecological information ... / >>

Methanol Partition coefficient: n-octanol/water BCF	-0,77 0,2
Acetone Partition coefficient: n-octanol/water BCF	-0,23 3
Methyl acetate Partition coefficient: n-octanol/water	0,18
N-butyl acetate Partition coefficient: n-octanol/water BCF	2,3 15,3
2.4. Mobility in soil	
Xylene (mixture of isomers) Partition coefficient: soil/water	2,73
Methyl acetate Partition coefficient: soil/water	0,18
N-butyl acetate	

1

Xylene (mixture of isomers) Partition coefficient: soil/water	2,73
Methyl acetate Partition coefficient: soil/water	0,18
N-butyl acetate Partition coefficient: soil/water	< 3

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Product residues are to be considered special hazardous waste.

Empty cans, even if completely emptied, must not be dispersed in the environment.

- The aerosol container overheated to a temperature above 50Å ° C can burst even if it contains a small residue of gas.
- Disposal must take place in an authorized place and in compliance with the laws in force.

Waste transportation can be subject to ADR.

European waste catalog number (contaminated containers): The aerosol as domestic waste is excluded from the application of the aforementioned standard. The exhausted aerosol for professional / industrial use can be classified: 15.01.10 *: packaging containing residues of dangerous substances or contaminated by these substances.

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

ADR / RID, IMDG, IATA: 1950

14.2. UN proper shipping name

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS
IATA:	AEROSOLS, FLAMMABLE

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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.1
IMDG:	Class: 2	Label: 2.1
IATA:	Class: 2	Label: 2.1



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:

IMDG: ΙΑΤΑ·

HIN - Kemler: --Special Provision: -EMS: F-D, S-U Cargo: Pass.: Special Instructions: Limited Quantities: 1 L

Limited Quantities: 1 L Maximum quantity: 150 Kg Maximum quantity: 75 Kg A145, A167, A802

Tunnel restriction code: (D)

Packaging instructions: 203 Packaging instructions: 203

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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/EC:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product 40

P3a

Point

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 (EC) Reg. 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.

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SECTION 15. Regulatory information/>>

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. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Press. Gas	Pressurised gas
Press. Gas (Liq.)	Liquefied gas
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
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
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
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may burst if heated.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
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.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit

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... / >> SECTION 16. Other information

- TWA: Time-weighted average 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) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 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) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII 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.

Changes to previous review: The following sections were modified: 08 / 13.