V400TEMP/ISA - SPRAYS - ESMALTE ALTA TEMPERATURA 400 ml ISAVAL

Revision nr. 13

Dated 10/10/2020

Printed on 23/11/2020

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Replaced revision:12 (Dated: 25/02/2020)

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

Code: V400TEMP/ISA

Product name SPRAYS - ESMALTE ALTA TEMPERATURA 400 ml ISAVAL

l: M360-V0N0-Q00G-M923

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

Aerosol paint for surfaces subject to high temperatures.

Identified Uses	Industrial	Professional	Consumer	
Consumer	-	-	❤	
Industrial Use	✓	-	-	
Professional Use	-	✓	-	
1.3. Details of the supplier of the safety d	ata sheet			
Name	AMBRO-SOL S.R.L	.		

Full address Via per Pavone del Mella n.21

District and Country 25020 Cigole (BS)

Italia

Tel. +39 030 9959674 Fax +39 030 959265

e-mail address of the competent person

responsible for the Safety Data Sheet quality@ambro-sol.com

1.4. Emergency telephone number

For urgent inquiries refer to Centro Antiveleni di Pavia: Tel. (+39) 0382-24444 (IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo: Tel. 800 883300 (Ospedale Papa Giovanni XXIII -

Bergamo)

Centro Antiveleni di Firenze: Tel. 055 7947819 (Ospedale Careggi - Firenze) Centro Antiveleni di Roma: Tel. 06 3054 343 (Policlinico Gemelli - Roma) Centro Antiveleni di Napoli: Tel. 081 5453333 (Ospedale Cardarelli - Napoli)

Servicio de Información Toxicológica (SIT) España: Tel. 91 5620420 (Instituto Nacional

de Toxicología y Ciencias Forenses - España)

Centro de Informação Antivenenos (CIAV): Tel. 800 250 250 (Instituto Nacional de

Emergência Médica - Portugal)

Centre Antipoison de Paris: Tel. 01 40 05 48 48 (Centre Antipoison et de

Toxicovigilance de Paris - France)

Pomorskie Centrum Toksykologii: Tel. (58) 682 04 04 (Zakład Toksykologii Klinicznej -

Polska)

American Association of Poison Control Centers (USA): Tel. +1 (800) 222 1222

Giftnotrufzentralen (Berlin, Deutschland): Tel. +49 030 19 240

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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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 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
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	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.H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

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

P251 Do not pierce or burn, even after use.

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.

Contains: Acetone

N-butyl acetate

Reaction mass of ethylbenzene and xylene

Isobutyl acetate

Statements on the aspiration toxicity classification were not included in the label

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elements, based on section 1.3.3. of Annex I to CLP.

VOC (Directive 2004/42/EC) :

Special finishes.

VOC given in g/litre of product in a ready-to-use condition: 686,41 Limit value: 840,00

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ 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 35 ≤ x < 39 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

11eg. 110. 01-2119471330-43-XXXX

Propane

CAS 74-98-6 15 ≤ x < 19 Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note 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 106-97-8 7 ≤ x < 9 Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to

Annex VI to the CLP Regulation: C U

INDEX 601-004-00-0

EC 203-448-7

Reg. no. 01-2119474691-32-XXXX

Reaction mass of ethylbenzene

and xylene

CAS - 7 ≤ x < 9 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

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

EC 905-588-0

INDEX -

Reg. no. 01-2119539452-40-XXXX

N-butyl acetate

CAS 123-86-4 $5 \le x < 7$ Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1

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INDEX 607-025-00-1

Reg. no. 01-2119485493-29-XXXX

Xylene (mixture of isomers)

CAS 1330-20-7 5 ≤ x < 7 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP

Regulation: C

EC 215-535-7

INDEX 601-022-00-9

Reg. no. 01-2119488216-32-XXXX

Petroleum Resins

CAS 64742-16-1 $3 \le x < 5$ Aquatic Chronic 4 H413

EC 265-116-8 INDEX -

Isobutyl acetate

CAS 110-19-0 3 ≤ x < 5 Flam. Lig. 2 H225, STOT SE 3 H336, EUH066, Classification note according

to Annex VI to the CLP Regulation: C

EC 203-745-1

INDEX 607-026-00-7

Reg. no. 01-2119488971-22-XXXX

2-Butoxyethanol

CAS 111-76-2 3 ≤ x < 5 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

Skin Irrit. 2 H315

EC 203-905-0

INDEX 603-014-00-0

Reg. no. 01-2119475108-36-XXXX

Isobutane

CAS 75-28-5 $1 \le x < 3$ Flam. Gas 1A H220, Press. Gas H280

EC 200-857-2

INDEX 601-004-00-0

Reg. no. 01-2119485395-27-XXXX

Hydrocarbons, C9, aromatics

CAS 64742-95-6 $1 \le x < 2.5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336,

Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP

Regulation: P

EC 918-668-5

INDEX -

Reg. no. 01-2119455851-35-XXXX

4-methylpentan-2-one

CAS 108-10-1 $0.5 \le x < 1$ Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335,

EUH066

EC 203-550-1

INDEX 606-004-00-4

Reg. no. 01-2119473980-30-XXXX

Ethylbenzene

CAS 100-41-4 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

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2-methoxy-1-methylethyl acetate

CAS 108-65-6 $0 \le x < 0.5$ Flam. Liq. 3 H226

EC 203-603-9

INDEX 607-195-00-7

Reg. no. 01-2119475791-29-XXXX

1-methoxy-2-propanol

CAS 107-98-2 0 ≤ x < 0,5 Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1

INDEX 603-064-00-3

Reg. no. 01-2119457435-35-XXXX

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

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: 29,23 %

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

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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).

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.

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)

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Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

OEL EU

Regulatory References:

PRT

EU

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

Italia Decreto Legislativo 9 Aprile 2008, n.81

Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos Portugal 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 ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r Polska GBR United Kingdom

EH40/2005 Workplace exposure limits (Third edition, published 2018)

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**

Туре	Country	TWA/8h		STEL/15min		Remarks Observat	•	
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	1200	500	2400 (C)	1000 (C)			
MAK	DEU	1200	500	2400	1000			
VLEP	FRA	1210	500	2420	1000			
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			
Predicted no-effect concent	ration - PNEC							
Normal value in fresh water	•			10,6	mg/			
Normal value in marine wat	er			1,06	mg/	1		
Normal value for fresh water	er sediment			30,4	mg/	kg		
Normal value for marine wa	ter sediment			3,04	mg/	kg		
Normal value for water, inte	ermittent release			21	mg/	l		
Normal value of STP microo	organisms			100	mg/	l		
Normal value for the food cl	hain (secondary poiso	oning)		29,5	mg/	kg		
Normal value for the terrest	rial compartment			29,5	mg/	kg/d		
Normal value for the atmosp	phere			NPI				
Health - Derived no-eff	fect level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	62 mg/kg		o you conne		Cyclonic

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nhalation			VND	200 mg/m3	VND	2,420 mg/m3	VND	1,210 mg/m3
Skin			VND	62 mg/kg			VND	186 mg/kg
Propane Threshold Limit Value								
ype	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observatio	ns	
\GW	DEU	1800	1000	7200	4000			
MAK	DEU	1800	1000	7200	4000			
/LA	ESP		1000					
NDS/NDSCh	POL	1800						
Butane Fhreshold Limit Value								
ype	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observatio	ns	
AGW	DEU	2400	1000	9600	4000			
MAK	DEU	2400	1000	9600	4000			
/LA	ESP		1000				Gases	
/LEP	FRA	1900	800					
NDS/NDSCh	POL	1900		3000				
VEL	GBR	1450	600	1810	750			
WEL	GBR		4			RESP		
TLV-ACGIH					1000			
Reaction mass of ethylbe Predicted no-effect concentration	nzene and xyle on - PNEC	ne						
				327	μg/	/I		
Normal value in fresh water				0=1				
				327	μg/	/I		
Normal value in marine water	ediment					/l ı/kg/d		
Normal value in marine water Normal value for fresh water se				327	mg			
Normal value in marine water Normal value for fresh water se Normal value for marine water	sediment			327 12,46	mg	ŋ/kg/d ŋ/kg/d		
Normal value in marine water Normal value for fresh water se Normal value for marine water: Normal value for water, intermit	sediment ttent release			327 12,46 12,46	mg	n/kg/d n/kg/d /I		
Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga	sediment ttent release anisms			327 12,46 12,46 327	mg mg μg, mg	n/kg/d n/kg/d /I		
Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial	sediment ttent release anisms compartment t level - DNEL / Effects on	DMEL		327 12,46 12,46 327 6,58	mg mg mg mg	g/kg/d g/kg/d /I		
Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect	sediment ttent release anisms compartment t level - DNEL /	DMEL Acute systemic	Chronic local	327 12,46 12,46 327 6,58 2,31	mg mg μg/ mg	g/kg/d g/kg/d /I	Chronic local	Chronic systemic
Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure	sediment ttent release anisms compartment t level - DNEL / Effects on consumers		Chronic local	327 12,46 12,46 327 6,58 2,31	mg mg µg mg mg mg	g/kg/d g/kg/d /I g/l g/kg/d	Chronic local	
Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial sealth - Derived no-effect Route of exposure Oral	sediment ttent release anisms compartment t level - DNEL / Effects on consumers		Chronic local	327 12,46 12,46 327 6,58 2,31 Chronic systemic 1,6 mg/kg	mg mg µg mg mg mg	g/kg/d g/kg/d /I g/l g/kg/d	Chronic local	
Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral	sediment ttent release anisms compartment t level - DNEL / Effects on consumers		Chronic local	327 12,46 12,46 327 6,58 2,31 Chronic systemic 1,6 mg/kg bw/d	mg mg mg mg mg mg mg mg Acute local	g/kg/d g/kg/d /I g/l g/kg/d	Chronic local	systemic
Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin N-butyl acetate Threshold Limit Value	sediment ttent release anisms compartment t level - DNEL / Effects on consumers		Chronic local	327 12,46 12,46 327 6,58 2,31 Chronic systemic 1,6 mg/kg bw/d 14,8 mg/m3 108 mg/kg	mg mg mg mg mg mg mg mg Acute local	g/kg/d g/kg/d /I g/l g/kg/d	Chronic local	systemic 77 mg/m3 180 mg/kg

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						Oba'	ono	
		mg/m3	ppm	mg/m3	ppm	Observati	ons	
AGW	DEU	300	62	600 (C)	124 (C)			
VLA	ESP	724	150	965	200			
VLEP	FRA	710	150	940	200			
NDS/NDSCh	POL	240		720				
WEL	GBR	724	150	966	200			
OEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effect concentration	n - PNFC				100			
Normal value in fresh water	III-TINEO			180	μg/	1		
Normal value in marine water				18				
	limant				μg/			
Normal value for fresh water sec				981		/kg/d		
Normal value for marine water s				98,1		/kg/d		
Normal value of STP microorgar				35,6	mg			
Normal value for the terrestrial c	•			90,3	μg/	/kg/d		
Health - Derived no-effect	Effects on consumers)MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		2 mg/kg bw/d		2 mg/kg bw/d		2		2
Inhalation	300 mg/m3	300 mg/m3	35,7 mg/m3	12 mg/m3	600 mg/m3	600 mg/m3	300 mg/m3	48 mg/m3
Skin	NPI	6 mg/kg bw/d	NPI	3,4 mg/kg bw/d	NPI	11 mg/kg bw/d	NPI	7 mg/kg bw
Xylene (mixture of isomers Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	440	100	880	200	SKIN		
MAK	DEU	440	100	880	200	SKIN		
VLA	ESP		50			SKIN		
	LOF	221	50	442	100	SKIIN		
VLEP	FRA	221	50	442	100	SKIN		
VLEP VLEP								
	FRA	221	50	442	100	SKIN		
VLEP VLE	FRA ITA	221 221	50 50	442 442	100	SKIN		
VLEP VLE NDS/NDSCh	FRA ITA PRT	221 221 221	50 50	442 442 442	100	SKIN SKIN		
VLEP VLE NDS/NDSCh WEL	FRA ITA PRT POL	221 221 221 100	50 50 50	442 442 442 200	100 100 100	SKIN SKIN SKIN		
VLEP VLE NDS/NDSCh WEL OEL	FRA ITA PRT POL GBR	221 221 221 100 220	50 50 50 50	442 442 442 200 441	100 100 100	SKIN SKIN SKIN SKIN		
VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH	FRA ITA PRT POL GBR EU	221 221 221 100 220 221	50 50 50 50 50	442 442 442 200 441 442	100 100 100 100	SKIN SKIN SKIN SKIN		
VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentration	FRA ITA PRT POL GBR EU	221 221 221 100 220 221	50 50 50 50 50	442 442 442 200 441 442	100 100 100 100	SKIN SKIN SKIN SKIN SKIN		
VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentration	FRA ITA PRT POL GBR EU	221 221 221 100 220 221	50 50 50 50 50	442 442 442 200 441 442 651	100 100 100 100 100 150	SKIN SKIN SKIN SKIN SKIN		
VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH	FRA ITA PRT POL GBR EU	221 221 221 100 220 221	50 50 50 50 50	442 442 442 200 441 442 651	100 100 100 100 100 150 199	SKIN SKIN SKIN SKIN SKIN		
VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentration Normal value in fresh water Normal value in marine water	FRA ITA PRT POL GBR EU n - PNEC	221 221 221 100 220 221	50 50 50 50 50	442 442 442 200 441 442 651 327 327	100 100 100 100 100 150 150	SKIN SKIN SKIN SKIN SKIN		

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Normal value for the terrestrial c	ompartment			2,31	mg	ı/kg/d		
Health - Derived no-effect	level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,6 mg/kg bw/d				
Inhalation				14,8 mg/m3			289 mg/m3	77 mg/m3
Skin				108 mg/kg bw/d				180 mg/kg bw/d
Isobutyl acetate Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remark		
		mg/m3	ppm	mg/m3	ppm	Observa	tions	
AGW	DEU	300	62	600 (C)	124 (C)			
VLA	ESP	724	150					
VLEP	FRA	710	150	940	200			
NDS/NDSCh	POL	240		720				
WEL	GBR	724	150	903	187			
OEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				170	μд	/1		
Normal value in marine water				17	μд	/I		
Normal value for fresh water sec	liment			877	μд	/kg/d		
Normal value for marine water s	ediment			87,7	μд	/kg/d		
Normal value of STP microorgar	nisms			200	mg	ı/l		
Normal value for the terrestrial c	ompartment			75,5	μg	/kg/d		
Health - Derived no-effect	level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute systemic	Chronic local	Chronic
Oral		5 mg/kg bw/d		systemic 5 mg/kg bw/d		Systemic		systemic
Inhalation	300 mg/m3		35,7 mg/m3	35,7 mg/m3	600 mg/m3	600 mg/m3	300 mg/m3	300 mg/m3
Skin	NPI	5 mg/kg bw/d	NPI	5 mg/kg bw/d	NPI	10 mg/kg bw/d	NPI	10 mg/kg bw/d
Black spinel of Fe-Mn Health - Derived no-effect	level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Inhalation				systemic		systemic	10 mg/m3	systemic
2-Butoxyethanol Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remark Observa		
		mg/m3	ppm	mg/m3	ppm	Observa	uions	

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						110,000	(==	
AGW	DEU	49	10	98 (C)	20 (C)	SKIN		
MAK VLA	DEU ESP	49 98	10 20	98 245	20 50	SKIN SKIN	Hinweis	
VLEP	FRA	49	10	246	50	SKIN		
VLEP	ITA	98	20	246	50	SKIN		
VLE	PRT	98	20			SKIN		
			20	246	50			
NDS/NDSCh	POL	98		200		SKIN		
WEL	GBR	123	25	246	50	SKIN		
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH		97	20					
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				8,8	mg	/I		
Normal value in marine wate	r			880	μο	/I		
Normal value for fresh water	sediment			34,6	mg	/kg/d		
Normal value for water, inter	mittent release			9,1	mg	ı/I		
Normal value of STP microo	rganisms			463	mg	ı/I		
Normal value for the food cha	ain (secondary poison	ning)		20	mg	ı/kg		
Normal value for the terrestri	al compartment			2,33	mg	/kg/d		
Health - Derived no-effe		OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		26,7 mg/kg bw/d		6,3 mg/kg bw/d				
Inhalation	147 mg/m3	426 mg/m3	NPI	59 mg/m3	246 mg/m3	1091 mg/m3	NPI	98 mg/m3
Skin	VND	89 mg/kg bw/d	NPI	75 mg/kg bw/d	VND	89 mg/kg bw/d	NPI	125 mg/kg bw/d
Isobutane								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks /	·	
		mg/m3	nnm	mg/m3	nnm	Observation	ons	
TLV-ACGIH		mg/ms	800	mg/mo	ppm			
TEV-AGGIT			800					
Hydrocarbons, C9, aror Threshold Limit Value	natics							
Type	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observation	ons	
		9,5		90	PP			
	FII	100	10					
OEL	EU	100 MEI	19					
OEL	ect level - DNEL / DEffects on		19		Effects on workers			
OEL Health - Derived no-effe	ect level - DNEL / [19 Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
OEL Health - Derived no-effe	ect level - DNEL / I Effects on consumers	OMEL		systemic 11 mg/kg	workers	Acute systemic	Chronic local	Chronic systemic
OEL Health - Derived no-effe Route of exposure Oral Inhalation	ect level - DNEL / I Effects on consumers	OMEL		systemic	workers		Chronic local	

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systemic

NPI

systemic

4,2 mg/kg bw/d

Replaced revision:12 (Dated: 25/02/2020)

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	83	20	166	40	SKIN	
MAK	DEU	83	20	166	40	SKIN	
VLA	ESP	83	20	208	50		
VLEP	FRA	83	20	208	50		
VLEP	ITA	83	20	208	50		
VLE	PRT	83	20	208	50		
NDS/NDSCh	POL	83		200			
WEL	GBR	208	50	416	100	SKIN	
OEL	EU	83	20	208	50		
TLV-ACGIH		82	20	307	75		
Predicted no-effect concentral	tion - PNEC						
Normal value in fresh water				600	μg	1	
Normal value in marine water				60	μg	1	
Normal value for fresh water s	sediment			8,27	mg	/kg/d	
Normal value for marine water	r sediment			830	μg	/kg/d	
Normal value for water, interm	nittent release			1,5	mg	/I	
Normal value of STP microorg	ganisms			27,5	mg	/I	
Normal value for the terrestria	l compartment			1,3	mg	/kg/d	
Health - Derived no-effec	et level - DNEL / Effects on consumers	DMEL			Effects on workers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute Chronic loc	al Chronic

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Predicted no-effect concentration - PNEC

Normal value for the atmosphere

Oral

NPI

systemic

Ethylbenzene Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		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	
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	

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OEL	EU	442	100	884	200	SKIN		
TLV-ACGIH		87	20					
Predicted no-effect concentration	on - PNEC	-	•					
Normal value in fresh water				100	μg/l			
Normal value in marine water				55	μg/l			
Normal value for fresh water se	diment			13,7		/kg/d		
Normal value for marine water s				1,37		/kg/d		
Normal value for water, intermit				55	μg/l			
Normal value of STP microorga				9,6				
		ina		20	mg/			
Normal value for the food chain		iirig)			mg/			
Normal value for the terrestrial				2,68	mg/	/kg/d		
Health - Derived no-effect	Effects on consumers)MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		1,6 mg/kg		зузіснію		1,6
Inhalation	NPI	VND	NPI	bw/d 15 mg/m3	293 mg/m3	VND	NPI	77 mg/m3
Skin		NPI		NPI	NPI	NPI	NPI	180 mg/kg bw/d
Methyl acetate								
Threshold Limit Value	Country	TWA/8h		STEL/15min		Remarks	1	
Type	Country					Observat		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	620	200	1240 (C)	400 (C)			
MAK	DEU	310	100	1240	400			
VLA	ESP	616	200	770	250			
VLEP	FRA	610	200	760	250	SKIN		
NDS/NDSCh	POL	250		600				
WEL	GBR	616	200	770	250			
TLV-ACGIH		606	200	757	250			
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				120	μg/l			
Normal value in marine water				12	μg/l			
Health - Derived no-effect	Effects on	DMEL			Effects on			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral		NPI		systemic 44 mg/kg bw/d		systemic		systemic
Inhalation	VND	VND	152 mg/m3	DW/U	VND	VND	305 mg/m3	610 mg/m3
Skin			NPI	44 mg/kg bw/d	NPI	VND	NPI	88 mg/kg bw/d
2-methoxy-1-methylethyl	acetate							
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm	0.0011401		

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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		
VLEP	ITA	275	50	550	100	SKIN		
VLE	PRT	275	50	550	100	SKIN		
NDS/NDSCh	POL	260		520	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	274	50	550	100	SKIN		
		2/5	50	550	100	SKIN		
Predicted no-effect concentratio	on - PNEC							
Normal value in fresh water				635	μg			
Normal value in marine water				63,5	μg			
Normal value for fresh water sec				3,29		g/kg/d		
Normal value for marine water s				329		/kg/d		
Normal value of STP microorga	nisms			100	mg	g/l		
Normal value for the terrestrial of	compartment			290	μg	/kg soil dw		
Health - Derived no-effect	level - DNEL / D Effects on consumers	DMEL			Effects on workers			
							Chronic local	Chronic
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chironic local	
·		Acute systemic NPI	Chronic local	systemic 36 mg/kg	Acute local	Acute systemic	Chionic local	systemic
Oral				systemic 36 mg/kg bw/d			NPI	systemic
Oral	Acute local	NPI	Chronic local 33 mg/m3 NPI	systemic 36 mg/kg	550 mg/m3	systemic		
Oral Inhalation Skin 1-methoxy-2-propanol	Acute local NPI	NPI NPI	33 mg/m3	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg	550 mg/m3	systemic NPI	NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value	Acute local NPI	NPI NPI	33 mg/m3	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg	550 mg/m3	systemic NPI	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value	Acute local NPI NPI	NPI NPI NPI TWA/8h	33 mg/m3 NPI	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min	550 mg/m3 NPI	systemic NPI NPI	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type	NPI NPI Country	NPI NPI NPI TWA/8h mg/m3	33 mg/m3 NPI	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3	550 mg/m3 NPI	NPI NPI NPI	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW	NPI NPI Country	NPI NPI NPI TWA/8h mg/m3 370	33 mg/m3 NPI ppm 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740	550 mg/m3 NPI ppm 200	NPI NPI NPI	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK	NPI NPI Country DEU DEU	NPI NPI NPI TWA/8h mg/m3 370 370	33 mg/m3 NPI ppm 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740	550 mg/m3 NPI ppm 200 200	NPI NPI Remarks Observat	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA	NPI NPI Country DEU DEU ESP	NPI NPI NPI TWA/8h mg/m3 370 370 375	33 mg/m3 NPI ppm 100 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568	550 mg/m3 NPI ppm 200 200	NPI NPI Remarks Observat	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP	Acute local NPI NPI Country DEU DEU ESP FRA	NPI NPI NPI TWA/8h mg/m3 370 370 375 188	33 mg/m3 NPI ppm 100 100 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375	550 mg/m3 NPI ppm 200 200 150	NPI NPI Remarks Observat	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP	Acute local NPI NPI Country DEU DEU ESP FRA ITA	NPI NPI NPI TWA/8h mg/m3 370 375 188 375	33 mg/m3 NPI ppm 100 100 100 50	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568	550 mg/m3 NPI ppm 200 200 150 100	NPI NPI Remarks Observat	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP	Acute local NPI NPI Country DEU DEU ESP FRA ITA PRT	NPI NPI NPI TWA/8h mg/m3 370 370 375 188 375 375	33 mg/m3 NPI ppm 100 100 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568	550 mg/m3 NPI ppm 200 200 150	SKIN SKIN SKIN	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP	Acute local NPI NPI Country DEU DEU ESP FRA ITA	NPI NPI NPI TWA/8h mg/m3 370 375 188 375	33 mg/m3 NPI ppm 100 100 100 50	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568	550 mg/m3 NPI ppm 200 200 150 100	NPI NPI Remarks Observat	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP VLE NDS/NDSCh	Acute local NPI NPI Country DEU DEU ESP FRA ITA PRT	NPI NPI NPI TWA/8h mg/m3 370 370 375 188 375 375	33 mg/m3 NPI ppm 100 100 100 50	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568	550 mg/m3 NPI ppm 200 200 150 100	SKIN SKIN SKIN	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP VLEP NDS/NDSCh WEL	Acute local NPI NPI Country DEU DEU ESP FRA ITA PRT POL	NPI NPI NPI NPI TWA/8h mg/m3 370 375 188 375 180	33 mg/m3 NPI ppm 100 100 50 100 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568 568 360	550 mg/m3 NPI ppm 200 200 150 100 150	SKIN SKIN SKIN	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP VLE NDS/NDSCh WEL OEL	Acute local NPI NPI Country DEU DEU ESP FRA ITA PRT POL GBR	NPI NPI NPI NPI TWA/8h mg/m3 370 375 188 375 180 375	33 mg/m3 NPI ppm 100 100 50 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568 568 360 560	550 mg/m3 NPI ppm 200 200 150 150 150	Systemic NPI NPI Remarks Observat SKIN SKIN SKIN SKIN	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH	Acute local NPI NPI NPI Country DEU DEU ESP FRA ITA PRT POL GBR EU	NPI NPI NPI NPI TWA/8h mg/m3 370 370 375 188 375 180 375 375	33 mg/m3 NPI ppm 100 100 100 100 100 100 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568 568 560 560	ppm 200 200 150 150 150 150	Systemic NPI NPI Remarks Observat SKIN SKIN SKIN SKIN	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentratio	Acute local NPI NPI NPI Country DEU DEU ESP FRA ITA PRT POL GBR EU	NPI NPI NPI NPI TWA/8h mg/m3 370 370 375 188 375 180 375 375	33 mg/m3 NPI ppm 100 100 100 100 100 100 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568 568 560 560	ppm 200 200 150 150 150 150	SKIN SKIN SKIN SKIN SKIN	NPI NPI	systemic 275 mg/m3 796 mg/kg
Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentratio Normal value in fresh water	Acute local NPI NPI NPI Country DEU DEU ESP FRA ITA PRT POL GBR EU	NPI NPI NPI NPI TWA/8h mg/m3 370 370 375 188 375 180 375 375	33 mg/m3 NPI ppm 100 100 100 100 100 100 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568 568 360 560 568 368	ppm 200 200 150 150 150 150 100	SKIN SKIN SKIN SKIN SKIN	NPI NPI	systemic 275 mg/m3 796 mg/kg
Route of exposure Oral Inhalation Skin 1-methoxy-2-propanol Threshold Limit Value Type AGW MAK VLA VLEP VLEP VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentratio Normal value in fresh water Normal value for fresh water see	Acute local NPI NPI NPI Country DEU DEU ESP FRA ITA PRT POL GBR EU	NPI NPI NPI NPI TWA/8h mg/m3 370 370 375 188 375 180 375 375	33 mg/m3 NPI ppm 100 100 100 100 100 100 100	systemic 36 mg/kg bw/d 33 mg/m3 320 mg/kg bw/d STEL/15min mg/m3 740 740 568 375 568 568 360 560 568 368	550 mg/m3 NPI ppm 200 200 150 150 150 150 150 150 160 170 170 170 170 170 170 170 170 170 17	SKIN SKIN SKIN SKIN SKIN	NPI NPI	systemic 275 mg/m3 796 mg/kg

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Normal value for water, intermitt	tent release			100	mg/	I		
Normal value of STP microorga	nisms			100	mg/	1		
Normal value for the terrestrial of	compartment			459	mg/	kg/d		
Health - Derived no-effect	level - DNEL / DEFFECTS on consumers	DMEL			Effects on workers			
Route of exposure Oral	Acute local	Acute systemic	Chronic local	Chronic systemic 33 mg/kg	Acute local	Acute systemic NPI	Chronic local	Chronic systemic
Inhalation	NPI	NPI	NPI	bw/d 43,9 mg/m3	553,5 mg/m3	553,5 mg/m3	NPI	369 mg/m3
Skin	NPI	NPI	NPI	78 mg/kg bw/d	NPI	NPI	NPI	183 mg/kg bw/d
Methyl formate Fhreshold Limit Value								
Гуре	Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		246	100					
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				115	μg/l			
Normal value in marine water				11,5	μg/l			
Health - Derived no-effect	level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				14,29 mg/m3		VND		
Skin					VND	VND	NPI	
Methanol Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks /		
						Observatio	ns	
		mg/m3	ppm	mg/m3	ppm	Observatio	ns	
AGW	DEU	mg/m3 270	ppm 200	mg/m3 1080	ppm 800	Observatio SKIN	ns	
	DEU DEU						ns	
AGW MAK VLA		270	200	1080	800	SKIN	ns	
MAK VLA VLEP	DEU ESP FRA	270 130 266 260	200 100 200 200	1080	800	SKIN SKIN SKIN	ns 11	
MAK VLA VLEP VLEP	DEU ESP FRA ITA	270 130 266 260 260	200 100 200 200 200	1080	800	SKIN SKIN SKIN SKIN		
MAK VLA VLEP VLEP	DEU ESP FRA ITA PRT	270 130 266 260 260 260	200 100 200 200	1080 260 1300	800	SKIN SKIN SKIN SKIN SKIN SKIN		
MAK VLA VLEP VLEP VLEP VLE	DEU ESP FRA ITA PRT POL	270 130 266 260 260 260 100	200 100 200 200 200 200	1080 260 1300	800 200 1000	SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
MAK VLA VLEP VLEP VLE NDS/NDSCh	DEU ESP FRA ITA PRT POL GBR	270 130 266 260 260 260 100 266	200 100 200 200 200 200 200	1080 260 1300	800	SKIN SKIN SKIN SKIN SKIN SKIN		
MAK VLA VLEP VLEP VLE NDS/NDSCh WEL	DEU ESP FRA ITA PRT POL	270 130 266 260 260 260 100 266 260	200 100 200 200 200 200 200 200	1080 260 1300 300 333	800 200 1000 250	SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
MAK VLA VLEP VLEP VLE NDS/NDSCh WEL OEL	DEU ESP FRA ITA PRT POL GBR EU	270 130 266 260 260 260 100 266	200 100 200 200 200 200 200	1080 260 1300	800 200 1000	SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
MAK VLEP VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentratio	DEU ESP FRA ITA PRT POL GBR EU	270 130 266 260 260 260 100 266 260	200 100 200 200 200 200 200 200	1080 260 1300 300 333	800 200 1000 250 250	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
MAK VLA VLEP VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentratio	DEU ESP FRA ITA PRT POL GBR EU	270 130 266 260 260 260 100 266 260	200 100 200 200 200 200 200 200	1080 260 1300 300 333 328	800 200 1000 250 250	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
MAK VLA VLEP VLEP VLE NDS/NDSCh WEL OEL TLV-ACGIH Predicted no-effect concentratio Normal value in fresh water	DEU ESP FRA ITA PRT POL GBR EU	270 130 266 260 260 260 100 266 260	200 100 200 200 200 200 200 200	1080 260 1300 300 333 328 20,8 2,08	800 200 1000 250 250 mg/	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
MAK VLA VLEP VLEP VLE NDS/NDSCh WEL OEL	DEU ESP FRA ITA PRT POL GBR EU	270 130 266 260 260 260 100 266 260	200 100 200 200 200 200 200 200	1080 260 1300 300 333 328	800 200 1000 250 250 mg/	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN		

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Normal value for water, intermittent release	1,54	g/l	
Normal value of STP microorganisms	100	mg/l	
Normal value for the terrestrial compartment	100	mg/kg/d	

Health - Derived no-ef	fect level - DNEL / D	OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral		8 mg/kg bw/d		8 mg/kg bw/d				
Inhalation	50 mg/m3	50 mg/m3	50 mg/m3	50 mg/m3	260 mg/m3	260 mg/m3	260 mg/m3	260 mg/m3
Skin		8 mg/kg bw/d		8 mg/kg bw/d		40 mg/kg		40 mg/kg
						bw/d		bw/d

Legend:

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

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

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 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.

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

Appearance aerosol

Colour Black - Aluminum - White -

Transparent - Gray - Red

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Odour characteristic of solvent

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 Not available Upper explosive limit Vapour pressure Not available Vapour density Not available

Relative density 0,72 ÷ 0,76 g/ml a 20°C Solubility insoluble in water

Partition coefficient: n-octanol/water Not available

Auto-ignition temperature Not available

Decomposition temperature Not available

Viscosity Da 10" a 13" Coppa Ford

Explosive properties not applicable
Oxidising properties not applicable

9.2. Other information

VOC (Directive 2004/42/EC): 92,76 % - 686,41 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

N-butyl acetate

Decomposes on contact with: water.

Isobutyl acetate

Decomposes under the effect of heat. Attacks various types of plastic materials.

2-Butoxyethanol

Decomposes under the effect of heat.

4-methylpentan-2-one

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Reacts violently with: light metals. Attacks various types of plastic materials.

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.

1-methoxy-2-propanol

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

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.

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.

Isobutyl acetate

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

2-Butoxyethanol

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

4-methylpentan-2-one

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May react violently with: oxidising agents.Forms peroxides with: air.Forms explosive mixtures with: hot air.	
Ethylbenzene	
Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.	
2-methoxy-1-methylethyl acetate	
May react violently with: oxidising substances,strong acids,alkaline metals.	
1-methoxy-2-propanol	
May react dangerously with: strong oxidising agents, strong acids.	
10.4. Conditions to avoid	
Avoid overheating.	
Acetone	
Avoid exposure to: sources of heat,naked flames.	
N-butyl acetate	
Avoid exposure to: moisture, sources of heat, naked flames.	
Isobutyl acetate	
Avoid exposure to: sources of heat,naked flames.	
2-Butoxyethanol	
Avoid exposure to: sources of heat,naked flames.	
4-methylpentan-2-one	
Avoid exposure to: sources of heat.	
1-methoxy-2-propanol	
Avoid exposure to: air.	
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 pitrates atrang evidents saids alkalis zing	

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Isobutyl acetate

Incompatible with: strong oxidants, nitrates, strong acids, strong bases.

2-Butoxyethanol

Keep away from: strong oxidants.

4-methylpentan-2-one

Incompatible with: oxidising substances, reducing substances.

2-methoxy-1-methylethyl acetate

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

1-methoxy-2-propanol

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

10.6. Hazardous decomposition products

Acetone

May develop: ketenes,irritant substances.

2-Butoxyethanol

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 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

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N-butyl acetate

WORKERS: inhalation; contact with the skin.

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.

2-methoxy-1-methylethyl acetate

WORKERS: inhalation; contact with the skin.

1-methoxy-2-propanol

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.

Methanol

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.

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.

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).

1-methoxy-2-propanol

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes

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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.

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).

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

Petroleum Resins

LD50 (Oral) 2000 mg/kg

Xylene (mixture of isomers)

LD50 (Oral) > 3000 mg/kg rat

LD50 (Dermal) > 1700 mg/kg rabbit

LC50 (Inhalation) 5000 ppm/4h rat

2-methoxy-1-methylethyl acetate

LD50 (Oral) > 5000 mg/kg Rat

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.D50 (Dermal) > 5000 mg/kg Rat	
.C50 (Inhalation) 1805,05 ppm LC0 (4 h) rat	
Butane	
.C50 (Inhalation) > 1442,738 mg/l/15min rat	
Propane	
.C50 (Inhalation) 800000 ppm 15 min	
Ethylbenzene	
.D50 (Oral) 3500 mg/kg Rat	
.D50 (Dermal) 15354 mg/kg Rabbit	
.C50 (Inhalation) 17,2 mg/l/4h Rat	
Methanol	
.D50 (Oral) 1978 mg/kg bw rat	
C50 (Inhalation) 123,3 mg/l/4h rat	
P-Butoxyethanol	
.D50 (Oral) > 1000 mg/kg bw guinea pig	
.D50 (Dermal) > 400 mg/kg bw rabbit	
.C50 (Inhalation) > 400 ppm/4h rat	
-methoxy-2-propanol	
.D50 (Oral) > 3000 mg/kg bw rat	
.D50 (Dermal) 2000 mg/kg bw rat	
.C50 (Inhalation) > 6000 ppm/6h mouse	
Acetone	

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LD50 (Oral) 5800 mg/kg bw	
LD50 (Dermal) 7426 mg/kg bw guinea pig	
LC50 (Inhalation) > 20 mg/l/4h air	
4-methylpentan-2-one	
LD50 (Dermal) > 16000 mg/kg Rabbit	
LC50 (Inhalation) > 11,6 mg/l/4h rat air	
N-butyl acetate	
LD50 (Oral) > 10000 mg/kg Rat	
LD50 (Dermal) > 5000 mg/kg rabbit	
LC50 (Inhalation) 0,74 mg/l/4h Rat	
2000 (IIII.dation) 0,7 1 mg// III rat	
Isobutyl acetate	
LD50 (Oral) 13413 mg/kg bw rat	
LD50 (Dermal) 17400 mg/kg bw rabbit	
LC50 (Inhalation) 30 mg/l/6h rat	
Isobutane	
LC50 (Inhalation) > 1442,738 mg/l/15min rat	
Reaction mass of ethylbenzene and xylene	
LD50 (Oral) 3761,5 mg/kg bw rat	
LD50 (Dermal) 12126 mg/kg bw rabbit	
LC50 (Inhalation) 6525 ppm/4h rat	
Hydrocarbons, C9, aromatics	
LD50 (Oral) > 4 ml/kg bw rat	
LD50 (Dermal) > 3000 mg/kg bw rabbit	

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SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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

Toxic for aspiration

SECTION 12. Ecological information

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

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contaminate soil or vegetation.

12.1. Toxicity

Petroleum Resins

EC50 - for Crustacea 100 mg/l/48h EC50 - for Algae / Aquatic Plants 100 mg/l/72h

Xylene (mixture of isomers)

LC50 - for Fish 2,6 mg/l/96h
EC50 - for Algae / Aquatic Plants 4,6 mg/l/72h
EC10 for Crustacea 1,9 mg/l/21d
Chronic NOEC for Fish 1,3 mg/l 56 days
Chronic NOEC for Crustacea 960 µg/l 7 days
Chronic NOEC for Algae / Aquatic Plants 440 µg/l 73 h

2-methoxy-1-methylethyl acetate

 LC50 - for Fish
 > 100 mg/l/96h

 EC50 - for Crustacea
 > 100 mg/l/48h

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

 Chronic NOEC for Fish
 > 10 mg/l 14 days

Chronic NOEC for Crustacea 100 mg/l
Chronic NOEC for Algae / Aquatic Plants 1 g/l 4 days

Butane

LC50 - for Fish > 24,11 mg/l/96h

Propane

LC50 - for Fish 85,82 mg/l/96h EC50 - for Crustacea 41,82 mg/l/48h

Ethylbenzene

LC50 - for Fish 4,65 mg/l/96h
EC50 - for Crustacea 2,1 mg/l/48h
EC50 - for Algae / Aquatic Plants 5,15 mg/l/72h
Chronic NOEC for Fish 3,3 mg/l 4 days
Chronic NOEC for Crustacea 960 µg/l 7 days
Chronic NOEC for Algae / Aquatic Plants 3,95 mg/l 4 days

Methanol

 LC50 - for Fish
 15,4 g/l/96h

 Chronic NOEC for Fish
 446,7 mg/l 28 days

 Chronic NOEC for Crustacea
 208 mg/l 21 days

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2-Butoxyethanol

LC50 - for Fish 1,474 g/l

EC50 - for Crustacea 1,55 g/l

EC50 - for Algae / Aquatic Plants 911 mg/l/72h

EC10 for Crustacea 134 mg/l 21 days

Chronic NOEC for Fish 100 mg/l 21 days

Chronic NOEC for Crustacea 100 mg/l 21 days

Chronic NOEC for Algae / Aquatic Plants 88 mg/l 72 h

1-methoxy-2-propanol

LC50 - for Fish > 1 g/l/96h Chronic NOEC for Fish > 1 g/l 4 days

Acetone

 LC50 - for Fish
 6,83 g/l

 EC50 - for Crustacea
 8,8 g/l/48h

 Chronic NOEC for Crustacea
 1,659 g/l 28 days

4-methylpentan-2-one

LC50 - for Fish179 mg/l/96hEC50 - for Crustacea200 mg/l/48hChronic NOEC for Fish179 mg/l 4 daysChronic NOEC for Crustacea200 mg/l 48 hChronic NOEC for Algae / Aquatic Plants146 mg/l 7 days

N-butyl acetate

LC50 - for Fish 18 mg/l/96h
EC50 - for Crustacea 32 mg/l/48h
EC50 - for Algae / Aquatic Plants 246 mg/l/72h
Chronic NOEC for Crustacea 23,2 mg/l 21 days
Chronic NOEC for Algae / Aquatic Plants 105 mg/l 72 h

Isobutyl acetate

LC50 - for Fish16,6 mg/l/96hEC50 - for Crustacea24,6 mg/l/48hEC50 - for Algae / Aquatic Plants321,5 mg/l/72hChronic NOEC for Crustacea23,2 mg/l 21 daysChronic NOEC for Algae / Aquatic Plants1505 mg/l 72 h

Isobutane

LC50 - for Fish > 24,11 mg/l/96h

Reaction mass of ethylbenzene and xylene

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LC50 - for Fish 2,6 mg/l/96h
Chronic NOEC for Fish 1,3 mg/l 56 days
Chronic NOEC for Crustacea 1065 µg/l 7 days
Chronic NOEC for Algae / Aquatic Plants 440 µg/l 73 h

Hydrocarbons, C9, aromatics

EC50 - for Algae / Aquatic Plants $> 290 \ \mu g/l/72h$ Chronic NOEC for Algae / Aquatic Plants $70 \ \mu g/l$ 72 h

12.2. Persistence and degradability

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 146 - 208 mg/L @ 25 °C and pH 7 mg/l

Rapidly degradable

2-methoxy-1-methylethyl acetate

Solubility in water > 10000 mg/l

Rapidly degradable

Butane

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

Propane

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

Ethylbenzene

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

Methanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-Butoxyethanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

1-methoxy-2-propanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

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Acetone

Rapidly degradable

4-methylpentan-2-one

Solubility in water > 10000 mg/l

Rapidly degradable

N-butyl acetate

Solubility in water 5,3 g/l

Rapidly degradable

Isobutyl acetate

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

Isobutane

Rapidly degradable

Reaction mass of ethylbenzene and xylene

Rapidly degradable

Hydrocarbons, C9, aromatics

Rapidly degradable

12.3. Bioaccumulative potential

Xylene (mixture of isomers)

Partition coefficient: n-octanol/water 3,12 BCF 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

Methanol

Partition coefficient: n-octanol/water -0,77
BCF 0,2

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2-Butoxyethanol

Partition coefficient: n-octanol/water 0,81

1-methoxy-2-propanol

Partition coefficient: n-octanol/water < 1

Acetone

Partition coefficient: n-octanol/water -0,23 BCF 3

4-methylpentan-2-one

Partition coefficient: n-octanol/water 1,9

N-butyl acetate

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

Isobutyl acetate

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

12.4. Mobility in soil

Xylene (mixture of isomers)

Partition coefficient: soil/water 2,73

4-methylpentan-2-one

Partition coefficient: soil/water 2,008

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

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

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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.

Product residues are considered hazardous special waste. Do not dispose of in wastewater.

Empty cylinders, although completely emptied, should not be dispersed in the environment.

The overheated aerosol container at a temperature above 50 °C may burst even if it contains a small gas residue.

Waste transport may be subject to ADR.

Refer to applicable regulations.

European Waste Catalog (contaminated containers):

Aerosol as a household waste is excluded from the application of the above standard.

The exhausted commercial / industrial aerosol can be classified as: 15.01.10 *: packaging containing residues of dangerous or contaminated substances.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG,

1950

IATA:

14.2. UN proper shipping name

ADR / RID: AEROSOLS IMDG: AEROSOLS

IATA: AEROSOLS, FLAMMABLE

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

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ADR / RID: HIN - Kemler: --Limited

Quantities: 1

Tunnel restriction code: (D)

Packaging

Packaging

203

instructions:

instructions: 203

Special Provision: -

IMDG: EMS: F-D, S-U Limited Quantities: 1

IATA: Cargo: Maximum quantity: 150

Kg Maximum Pass.:

quantity: 75

Kg A145, A167, Special Instructions:

A802

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: P3a

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

<u>Product</u>

40 Point

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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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.

VOC (Directive 2004/42/EC) :

Special finishes.

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, 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

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 4 Hazardous to the aquatic environment, chronic toxicity, category 4

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.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

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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.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life. **EUH066** Repeated exposure may cause skin dryness or cracking.

I FGFND:

- 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
- 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 (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)

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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:

01 / 02 / 09.