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Replaced revision:4 (Dated: 24/02/2019)

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

CHC050110 Code:

CHEMISOL WELDING ANTI-ADHESIVE 400 ml CHEMITOOL Product name

UFI: XF60-W0DK-X00F-8NDC

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

Aerosol ceramic anti-adhesive. Intended use

Identified Uses	Industrial	Professional	Consumer
Consumer	-	-	~
Industrial Use	~	-	-
Professional Use	-	~	-

1.3. Details of the supplier of the safety data sheet

Name LUSAVOUGA - Máquinas e Acessórios Industriais, S.A.

Full address Edifício Lusavouga Avenida Europa, 375 District and Country 3800-533 Cacia

Portugal

tel. +351 234 915 010 fax +351 234 915 015

e-mail address of the competent person

responsible for the Safety Data Sheet qualidade@lusavouga.pt

1.4. Emergency telephone number

For urgent inquiries refer to 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.



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CHEMISOL WELDING ANTI-ADHESIVE 400 ml CHEMITOOL

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:

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 Methyl acetate

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 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 74-98-6 19 \leq x < 23 Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note/notes

according to Annex VI to the CLP Regulation: U



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EC 200-827-9

INDEX 601-003-00-5

Reg. no. 01-2119486944-21-0046

Butane

CAS 106-97-8 $9 \le x < 11$

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 dioxide

CAS 13463-67-7 $5 \le x < 7$

EC 236-675-5

INDEX -

Reg. no. 01-2119489379-17-XXXX

N-butyl acetate

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 acetate

CAS 79-20-9 1 ≤ x < 3 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 201-185-2

INDEX 607-021-00-X

Reg. no. 01-2119459211-47-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

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

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 (mixture 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



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CHEMISOL WELDING ANTI-ADHESIVE 400 ml CHEMITOOL

Ethylbenzene

CAS 100-41-4

 $0 \le x < 0.5$

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



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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 / 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	ΕΦΗΜΕΡΙΔΑ 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



mg/m3

1800

1800

1800

1800

DEU

DEU

GRC

POL

AGW

MAK

VLA

NDS/NDSCh

ppm

1000

1000

1000

1000

mg/m3

7200

7200

ppm

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Acetone Threshold Limit Value	9							
Type	Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
		mg/m3	ppm	mg/m3	ppm	Coorvano	110	
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			
Predicted no-effect concer	ntration - PNEC							
Normal value in fresh water	er			10,6	mg	1/I		
Normal value in marine wa	ater			1,06	mg	ı/l		
Normal value for fresh wat	ter sediment			30,4	mg	ı/kg		
Normal value for marine w	ater sediment			3,04	mg	ı/kg		
Normal value for water, int	termittent release			21	mg	ı/l		
Normal value of STP micro	oorganisms			100	mg	ı/l		
Normal value for the food	chain (secondary poisc	ning)		29,5	mg	ı/kg		
Normal value for the terres	strial compartment			29,5	mg	ı/kg/d		
Normal value for the atmos	sphere			NPI				
Health - Derived no-ef	ffect 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				,
Inhalation			VND	200 mg/m3	VND	2,420 mg/m3	VND	1,210 mg/m
Skin			VND	62 mg/kg			VND	186 mg/kg
Propane Threshold Limit Value	9							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
		ma/m3	nnm	ma/m3	nnm	ODSCI VALIO	110	



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Threshold Limit Value	ue					
Туре	Country	TWA/8h		STEL/15mir	1	Remarks / Observations
		mg/m3	ppm	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	

Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	10						
VLEP	FRA	10						
TLV	GRC		10					
NDS/NDSCh	POL	10				INHAL		
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		10						
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				184	μg	ı/I		
Normal value in marine wate	r			18,4	μ	/I		
Normal value for fresh water	sediment			1000	mg	/kg/d		
Normal value for marine water	er sediment			100	mg	/kg/d		
Normal value for the terrestri	al compartment			100	mg	/kg/d		
Health - Derived no-effe	ect level - DNEL / I	DMEL						
	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				700 mg/kg bw/d		2,21311110		2,21011110

Inhalation 10 mg/m3



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N-butyl acetate								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	<u> </u>	
Туре	Country					Observati		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	300	62	600 (C)	124 (C)			
VLA	ESP	724	150	965	200			
VLEP	FRA	710	150	940	200			
TLV	GRC	710	150	950	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	on - PNEC							
Normal value in fresh water				180	μg/	1		
Normal value in marine water				18	μg/	1		
Normal value for fresh water so	ediment			981	μg/	kg/d		
Normal value for marine water	sediment			98,1	μg/	kg/d		
Normal value of STP microorg	anisms			35,6	mg.	/I		
Normal value for the terrestrial	compartment			90,3	μg/	kg/d		
Health - Derived no-effec	t level - DNEL /	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral		2 mg/kg bw/d		systemic 2 mg/kg bw/d		systemic 2		systemic 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/d
				bw/u		DW/U		
Methyl acetate								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	/	
						Observati		
		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		
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 concentration	on - PNEC							
Normal value in fresh water				120	μg/	1		
Normal value in marine water				12	μg/	1		
Health - Derived no-effec	t level - DNEL /	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic



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Oral		NPI		44 mg/kg				
Inhalation	VND	VND	152 mg/m3	bw/d	VND	VND	305 mg/m3	610 mg/m3
	VIND	VND		44 //				
Skin			NPI	44 mg/kg bw/d	NPI	VND	NPI	88 mg/kg bw/d
Isobutane Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH			800					
2-methoxy-1-methylethyl a Threshold Limit Value	acetate							
Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm	Observa	1110113	
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	275	50	550	100	SKIN		
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				635	μς	ı/l		
Normal value in marine water				63,5	μς	ı/l		
Normal value for fresh water see	diment			3,29	m	g/kg/d		
Normal value for marine water s	sediment			329	μς	ı/kg/d		
Normal value of STP microorga	nisms			100	m	g/l		
Normal value for the terrestrial of	compartment			290	μς	/kg soil dw		
Health - Derived no-effect	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		NPI		36 mg/kg bw/d		Зузісній		Systellillo
Inhalation	NPI NPI	NPI NPI	33 mg/m3 NPI	33 mg/m3 320 mg/kg	550 mg/m3 NPI	NPI NPI	NPI NPI	275 mg/m3 796 mg/kg
Skin	NPI	NPI	NPI	bw/d	NPI	NPI	NPI	bw/d
Methyl formate Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observa	itions	



Methanol

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Normal value in fresh water 115 $\mu g/l$ Normal value in marine water 11,5 $\mu g/l$

Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Acute Chronic systemic Acute systemic Chronic local Route of exposure Chronic Chronic local Acute local Acute local systemic Inhalation 14,29 mg/m3 VND VND Skin VND NPI

Type	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observati	ons	
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-effect concent	ration - PNEC							
Normal value in fresh water				20,8	mg	/I		
Normal value in marine water	er			2,08	mg	/I		
Normal value for fresh water	r sediment			77	mg	/kg/d		
Normal value for marine wat	ter sediment			7,7	mg	/kg/d		
Normal value for water, inte	rmittent release			1,54	g/l			
Normal value of STP microc	organisms			100	mg	/I		
Normal value for the terrestr	rial compartment			100	mg	/kg/d		
Health - Derived no-eff		DMEL						
	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		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 bw/d		40 mg/kg bw/d



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Xylene (mixture of ison	ners)							
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		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			
Predicted no-effect concentr	ation - PNEC							
Normal value in fresh water				327	μ	g/l		
Normal value in marine wate	er			327	μ	g/l		
Normal value for fresh water	sediment			12,46	m	ng/kg/d		
Normal value for marine wat		12,46	m	ng/kg/d				
Normal value of STP microo		6,58	m	ng/l				
Normal value for the terrestri	ial compartment			2,31	m	ng/kg/d		
Health - Derived no-effe	ect level - DNEL /	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 1,6 mg/kg		systemic		systemic
Inhalation				bw/d 14,8 mg/m3			289 mg/m3	77 mg/m3
Skin				108 mg/kg				180 mg/kg
				bw/d				bw/d
Ethylbenzene Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm	Observa	110113	
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		
			100					
WEL	GBR	441	100	552	125	SKIN		



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TLV-ACGIH		87	20					
Predicted no-effect concentration	- PNEC							
Normal value in fresh water				100	μg/	1		
Normal value in marine water				55	μg/	1		
Normal value for fresh water sed	iment			13,7	mg	/kg/d		
Normal value for marine water se	ediment			1,37	mg	/kg/d		
Normal value for water, intermitte	ent release			55	μg/	1		
Normal value of STP microorgan	isms			9,6	mg	/I		
Normal value for the food chain (secondary poison	ing)		20	mg	/kg		
Normal value for the terrestrial co	mpartment			2,68	mg	/kg/d		
Health - Derived no-effect I	evel - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral		NPI		systemic 1,6 mg/kg		systemic		systemic 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
Ethanol								DW/G
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	· /	
						Observa		
A C1A/	DELL	mg/m3	ppm	mg/m3	ppm			
AGW	DEU	380	200	1520	800			
MAK	DEU	380	200	1520	800			
VLA	ESP	1000	1000	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-effect concentration	- PNEC							
Normal value in fresh water				960	μg/	1		
Normal value in marine water				790	μg/	1		
Normal value for fresh water sed	iment			3,6	mg	/kg/d		
Normal value for marine water se	ediment			2,9	mg	/kg/d		
Normal value for water, intermitte	ent release			2,75	mg	/I		
Normal value of STP microorgan	isms			580	mg	/1		
Normal value for the food chain (secondary poison	ing)		380	mg	/kg		
Normal value for the terrestrial co	ompartment			630	µg/	kg/d		
Health - Derived no-effect I	evel - 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 systemic
Oral		NPI		systemic 87 mg/kg bw/d		systemic		87
Inhalation	950 mg/m3	NPI	NPI	114 mg/m3	1900 mg/m3	NPI	NPI	950 mg/m3
Skin	NPI	NPI	NPI	206 mg/kg bw/d	NPI	NPI	NPI	343 mg/kg bw/d



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Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		Remarks / 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-effect concentration	n - PNEC					
Normal value in fresh water				140,9		mg/l
Normal value in marine water				140,9		mg/l
Normal value for fresh water sec	diment			552		mg/kg/d
Normal value for marine water s	ediment			552		mg/kg/d
Normal value for water, intermitt	ent release			140,9		mg/l
Normal value of STP microorgar	nisms			2,251		g/l
Normal value for the food chain	(secondary poiso	oning)		160		mg/kg
Normal value for the terrestrial c	ompartment			28		mg/kg/d
Health - Derived no-effect	level - DNEL /	DMEL				
	Effects on				Effects or	1

	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
·				systemic		systemic		systemic
Oral	VND	VND	VND	26 mg/kg bw/d	VND	VND	VND	VND
Inhalation	VND	VND	VND	89 mg/m3	VND	VND	VND	500 mg/m3
Skin	VND	VND	VND	319 mg/kg bw/d	VND	VND	VND	888 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.



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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

Appearance aerosol
Colour colourless

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 0,73 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



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9.2. Other information

VOC (Directive 2010/75/EC) : 90,57 % - 661,14 g/litre
VOC (volatile carbon) : 61,80 % - 451,14 g/litre

Solvent base Acetone

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.

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



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

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.

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



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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).

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 (IspesI). Is irritating for skin, conjunctiva and respiratory tract.



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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

Xylene (mixture of isomers)

LD50 (Oral) > 3000 mg/kg rat

LD50 (Dermal) > 1700 mg/kg rabbit

LC50 (Inhalation) 5000 ppm/4h rat

Titanium dioxide

LD50 (Oral) > 10000 mg/kg Rat

LC50 (Inhalation) 5,12 mg/l/4h rat

2-methoxy-1-methylethyl acetate

LD50 (Oral) > 5000 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rat

LC50 (Inhalation) 1805,05 ppm LC0 (4 h) rat

Butane

LC50 (Inhalation) > 1442,738 mg/l/15min rat



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Propane
LC50 (Inhalation) 800000 ppm 15 min
Ethylbenzene
LD50 (Oral) 3500 mg/kg Rat
LD50 (Dermal) 15354 mg/kg Rabbit
LC50 (Inhalation) 17,2 mg/l/4h Rat
Methanol
LD50 (Oral) 1978 mg/kg bw rat
LC50 (Inhalation) 123,3 mg/l/4h rat
Acetone
LD50 (Oral) 5800 mg/kg bw
LD50 (Dermal) 7426 mg/kg bw guinea pig
LC50 (Inhalation) > 20 mg/l/4h air
Methyl acetate
LD50 (Oral) 6482 mg/kg rat
LD50 (Dermal) 2000 mg/kg bw rat
LC50 (Inhalation) 49,2 mg/l/4h rabbit
N-butyl acetate
LD50 (Oral) > 10000 mg/kg Rat
LD50 (Dermal) > 5000 mg/kg rabbit
LC50 (Inhalation) 0,74 mg/l/4h Rat



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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



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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

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

Titanium dioxide

EC50 - for Crustacea 26,45 mg/l/48h EC50 - for Algae / Aquatic Plants 100 mg/l/72h Chronic NOEC for Fish 985 μ g/l 14 days Chronic NOEC for Crustacea 2,35 mg/l 21 days Chronic NOEC for Algae / Aquatic Plants 1 mg/l 32 days

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



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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

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

Methyl acetate

 LC50 - for Fish
 300 mg/l/96h

 EC50 - for Crustacea
 1,027 g/l

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

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

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

Isobutane

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

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 $146 - 208 \; \text{mg/L} \; @ \; 25 \; ^{\circ}\text{C} \; \text{and pH 7 mg/l}$

Rapidly degradable

Titanium dioxide

Solubility in water < 0,001 mg/l

Degradability: information not available

2-methoxy-1-methylethyl acetate

Solubility in water > 10000 mg/l

Rapidly degradable



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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

Acetone

Rapidly degradable

Methyl acetate

Solubility in water 243500 mg/l

Rapidly degradable

N-butyl acetate

Solubility in water 5,3 g/l

Rapidly degradable

Isobutane

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



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Methanol

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

Acetone

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

Methyl acetate

Partition coefficient: n-octanol/water 0,18

N-butyl 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

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.



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Packaging

Packaging

203

instructions:

instructions: 203

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,

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: Label: 2.1 Class: 2

IATA: Class: 2 Label: 2.1



14.4. Packing group

ADR / RID, IMDG,

IATA:

IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: --Limited Tunnel Quantities: 1 restriction code: (D)

Special Provision: -

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

> Cargo: Maximum

quantity: 150 Kg

Pass: Maximum quantity: 75

Kg A145, A167,

Special Instructions:

A802



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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

Product

Point 40

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

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Flam. Gas 1A Flammable gas, category 1A

Aerosol 1 Aerosol, category 1



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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



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- 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
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- 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
- 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)
- 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
- **FCHA** website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

08 / 13.