1268 - Anti-slip for surfaces

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# Safety data sheet

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **126** 

Product name
Chemical name and synonym

Anti-slip for surfaces
Anti-slip for surfaces

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

Intended use Treatment for slippery surfaces

Identified Uses	Industrial	Professional	Consumer
Industrial Use		-	-
Professional Use	-	✓	-

#### 1.3. Details of the supplier of the safety data 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: 0382 24444 (IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo: 800 883300 (Ospedali Riuniti - Bergamo) Centro Antiveleni di Firenze: 055 7947819 (Ospedale Careggi - Firenze) Centro Antiveleni di Roma: 06 3054343 (Policlinico Gemelli - Roma) Centro Antiveleni di Napoli: 081 7472870 (Ospedale Cardarelli - Napoli)

Centro Antiveleni in Spagna: 91 5620420 (Inst. Nacional de Toxicología y Ciencias Forenses) Centro Antiveleni in Francia: 01 40054848 (Centre Antipoison et de Toxicovigilance de Paris)

# **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 EC Regulation 1907/2006 and subsequent amendments. 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.
Acute toxicity, category 4 Eye irritation, category 2	H302 H319	Harmful if swallowed. Causes serious eye irritation.
Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3	H315 H336	Causes skin irritation. May cause drowsiness or dizziness.

#### 2.2. Label elements

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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.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

**H336** May cause drowsiness or dizziness.

#### Precautionary statements:

P102 Keep out of reach of children.

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

**P211** Do not spray on an open flame or other ignition source.

**P251** Do not pierce or burn, even after use.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P280 Wear protective gloves / eye protection / face protection.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

Contains: METHYL ACETATE

METHANOL

N-BUTYL ACETATE

Methyl formate

#### VOC (Directive 2004/42/EC) :

Special finishes.

VOC given in g/litre of product in a ready-to-use condition:

626,89 840,00

Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

# 2.3. Other hazards

Powders can create explosive mixtures with the air.

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

# **SECTION 3. Composition/information on ingredients**

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

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# Contains:

METHYL ACETATE		(CLP)
CAS 79-20-9	35 ≤ x < 39	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 201-185-2		L011000
INDEX 607-021-00-X		
Reg. no. 01-2119459211-47-XXXX		
PROPANE		
CAS 74-98-6	19 ≤ x < 23	Flam. Gas 1 H220, Press.
EC 200-827-9		Gas (Liq.) H280, Note U
INDEX 601-003-00-5		
Reg. no. 01-2119486944-21-XXXX		
BUTANE		
CAS 106-97-8	9 ≤ x < 11	Flam. Gas 1 H220, Press.
EC 203-448-7		Gas (Liq.) H280, Note C U
INDEX 601-004-00-0		
Reg. no. 01-2119474691-32-XXXX		
N-BUTYL ACETATE		
CAS 123-86-4	7≤x< 9	Flam. Liq. 3 H226, STOT SE
EC 204-658-1		3 H336, EUH066
INDEX 607-025-00-1		
Reg. no. 01-2119485493-29-XXXX		
XYLENE (MIXTURE OF ISOMERS)		
CAS 1330-20-7	7≤x< 9	Flam. Liq. 3 H226, Acute To 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C
EC 215-535-7		
INDEX 601-022-00-9		
Reg. no. 01-2119488216-32-XXXX		
Methyl formate		
CAS 107-31-3	1 ≤ x < 3	Flam. Liq. 1 H224, Acute To 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE: H335
EC 203-481-7		ПЭЭЭ
INDEX 607-014-00-1		
Reg. no. 01-2119487303-38-XXXX		
METHANOL		
CAS 67-56-1	1≤x< 3	Flam. Liq. 2 H225, Acute To 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT S
EC 200-659-6		1 H370

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**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

Reg. no. 01-2119392409-28-XXXX

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: 30,47 %

# **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 None in particular.

## 5.2. Special hazards arising from the substance or mixture

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#### 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 / 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

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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:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
EST	Eesti	Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud
		18.09.2001 nr 293 RT I 2001, 77, 460 - Redaktsiooni jõustumise kp: 01.01.2008
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	DEL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ
		MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
LVA	Latvija	Ķīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2012
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia
		16 grudnia 2011r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas
		em matéria de protecção dos trabalhadores contra os riscos para a

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segurança e a saúde devido à exposição a agentes químicos no trabalho -

Diaro da Republica I 26; 2012-02-06

NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007

SVN Slovenija Uradni list Republike Slovenije 15. 6. 2007 SWE Sverige Occupational Exposure Limit Values, AF 2011:18

TUR Türkiye 2000/39/EC sayılı Direktifin ekidir

EU OEL EU Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC;

Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2016

SVK

Slovensko

METHYL ACETATE Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	600		800				
AGW	DEU	610	200	2440	800			
MAK	DEU	310	100	1240	400			
TLV	DNK	455	150					
VLA	ESP	616	200	770	250			
TLV	EST	450	150	900	300			
HTP	FIN	610	200	770	250			
VLEP	FRA	610	200	760	250	SKIN		
WEL	GBR	616	200	770	250			
TLV	GRC	610	200	760	250			
GVI	HRV	616	200	770	250			
AK	HUN	610		2440				
RD	LTU	450	150	900	300			
RV	LVA	100						
OEL	NLD	100						
TLV	NOR	305	100					
NDS	POL	250		600				
NPHV	SVK	610	200	2440				
MAK	SWE	450	150	900	300			
TLV-ACGIH		606	200	757	250			
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water Normal value in marine water				120 12		μg/l		
Health - Derived no-effect	level - DNEL / D	MEL		12		μg/l		
	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		NPI		44 mg/kg		Systemic		Systemic
Inhalation	VND	VND	152 mg/m3	bw/d	VND	VND	305 mg/m3	610 mg/m3
Skin			NPI	44 mg/kg	NPI	VND	NPI	88 mg/kg
				bw/d				bw/d
PROPANE								
Threshold Limit Value		<b>T</b> 144464		0751 /45				
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	1800						

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						1 ago 11. 0/24
AGW	DEU	1800	1000	7200	4000	
MAK	DEU	1800	1000	7200	4000	
TLV	DNK	1800	1000			
TLV	EST	1800	1000			
HTP	FIN	1500	800	2000	1100	
TLV	GRC	1800	1000			
TLV	NOR	900	500			
NDS	POL	1800				
MV	SVN	1800	1000			
TLV-ACGIH			1000			
BUTANE						
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		
.,,,,,	Country	mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1900	PPIII	mg/mo	PPIII	
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	
TLV	DNK	1200	500	9000	4000	
	ESP	1200	800			
VLA		4500				
TLV	EST	1500	800	0.400	4000	
HTP	FIN	1900	800	2400	1000	
VLEP	FRA	1900	800			
WEL	GBR	1450	600	1810	750	
TLV	GRC	2350	1000			
GVI	HRV	1450	600	1810	750	
AK	HUN	2350		9400		
OEL	NLD	1430				
TLV	NOR	600	250			
NDS	POL	1900		3000		
TLV-ACGIH				2377	1000	
N-BUTYL ACETATE						
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		
	•	mg/m3	ppm	mg/m3	ppm	
TLV	BGR	710		950	• • •	
TLV	CZE	950		1200		
MAK	DEU	480	100	960	200	
VLA	ESP	724	150	965	200	
VLEP	FRA	710	150	940	200	
WEL	GBR	710	150	966	200	
TLV	GRC	724	150	950	200	
GVI	HRV	710	150	966	200	
		950	150		200	
AK	HUN			950		
OEL	NLD	150	75			
TLV	NOR		75			

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NDS	POL	200		950						
NPHV	SVK		100							
		480		960	450					
MAK TLV-ACGIH	SWE	500	100 50	700	150 150					
Predicted no-effect concentrate	tion - PNFC		30		150					
Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value of STP microorg Normal value for the terrestria Health - Derived no-effec	sediment r sediment ganisms I compartment	DMEL.		180 18 981 98,1 35,6 90,3		µg/l µg/l µg/kg µg/kg mg/l µg/kg	ı/d			
	Effects on				Effects on					
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic		
Oral		2 mg/kg bw/d		systemic 2 mg/kg bw/d		systemic 2		systemic 2		
Inhalation Skin	300 mg/m3 NPI	300 mg/m3 6 mg/kg bw/d	37,5 mg/m3 NPI	12 mg/m3 3,4 mg/kg bw/d	600 mg/m3 NPI	600 mg/m3 11 mg/kg bw/d	300 mg/m3 NPI	48 mg/m3 7 mg/kg bw/		
XYLENE (MIXTURE OF IS	SOMERS)									
Threshold Limit Value Type	Country	TWA/8h		STEL/15min						
Турс	Country	mg/m3	ppm	mg/m3	ppm					
ΓLV	BGR	221	PP	442	PP···	SKIN				
ΓLV	CZE	200		400		SKIN				
AGW	DEU	440	100	880	200	SKIN				
MAK	DEU	440	100	880	200	SKIN				
VLA	ESP	221	50	442	100	SKIN				
TLV	EST	221	50	442	100	SKIN				
HTP	FIN	220	50	440	100	SKIN				
VLEP	FRA	221	50	442	100	SKIN				
WEL	GBR	220	50	441	100					
TLV	GRC	435	100	650	150					
GVI	HRV	221	50	442	100	SKIN				
AK	HUN	221	30	442	100	SKIN				
VLEP	ITA	221	50	442	100	SKIN				
OEL			30		100					
TLV	NLD NOR	210	25	442		SKIN SKIN				
NDS		108	20			SKIIN				
VLE	POL PRT	100 221	50	442	100	SKIN				
vLE NPHV	SVK	221	50	442	100	SKIN				
MV	SVN	221	50	774		SKIN				
MAK	SWE	221	50	442	100	SKIN				
ESD	TUR	221	50	442	100	SKIN				
OEL OEL	EU	221	50	442	100	SKIN				
TLV-ACGIH	20	434	100	651	150	OIXIIV				
Predicted no-effect concentrate	tion - PNEC									
Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value of STP microorg	sediment r sediment			327 327 12,46 12,46 6,58		µg/l µg/l mg/k; mg/l				

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SKIN

SKIN

SKIN

SKIN

250

Normal value for the terrestrial cor	mpartment			2,31		mg/kg	g/d	
Health - Derived no-effect le	evel - DNEL / D	MEL			⊏#aata an			
Route of exposure	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,6 mg/kg bw/d		Systemic		Systemic
Inhalation				14,8 mg/m3			289 mg/m3	77 mg/m3
Skin				108 mg/kg bw/d				180 mg/kg bw/d
Methyl formate								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		246	100					
Predicted no-effect concentration	- PNEC							
Normal value in fresh water Normal value in marine water				115 11,5		μg/l μg/l		
Health - Derived no-effect le	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
Inhalation				14,29 mg/m3		VND		
Skin					VND	VND	NPI	
METHANOL Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min				
				mg/m3	ppm			
		mg/m3	ppm	· ·	ppiii			
TLV	BGR	mg/m3 50	ppm		PPIII	SKIN		
TLV TLV	BGR CZE	_	ppm	1000	ppm	SKIN SKIN		
		50	200		800			
TLV	CZE	50 250		1000		SKIN		
TLV AGW	CZE DEU	50 250 270	200	1000 1080	800	SKIN SKIN		
TLV AGW MAK	CZE DEU DEU	50 250 270 270	200 200	1000 1080	800	SKIN SKIN		
TLV AGW MAK TLV	CZE DEU DEU DNK	50 250 270 270 260	200 200 200	1000 1080	800	SKIN SKIN SKIN		
TLV AGW MAK TLV VLA	CZE DEU DEU DNK ESP	50 250 270 270 260 266	200 200 200 200	1000 1080	800	SKIN SKIN SKIN		
TLV AGW MAK TLV VLA TLV	CZE DEU DEU DNK ESP EST	50 250 270 270 260 266 260	200 200 200 200 200	1000 1080 1080	800 800	SKIN SKIN SKIN SKIN		
TLV AGW MAK TLV VLA TLV HTP	CZE DEU DEU DNK ESP EST FIN	50 250 270 270 260 266 260 270	200 200 200 200 200 200	1000 1080 1080	800 800 250	SKIN SKIN SKIN SKIN SKIN		
TLV AGW MAK TLV VLA TLV HTP VLEP	CZE DEU DEU DNK ESP EST FIN	50 250 270 270 260 266 260 270 260	200 200 200 200 200 200 200	1000 1080 1080 330 1300	800 800 250 1000	SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
TLV AGW MAK TLV VLA TLV HTP	CZE DEU DEU DNK ESP EST FIN FRA GBR	50 250 270 270 260 266 260 270 260 266	200 200 200 200 200 200 200 200	1000 1080 1080 330 1300 333	800 800 250 1000 250	SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
TLV AGW MAK TLV VLA TLV HTP VLEP WEL TLV	CZE DEU DEU DNK ESP EST FIN FRA GBR GRC	50 250 270 270 260 266 260 270 260 266 260	200 200 200 200 200 200 200 200 200	1000 1080 1080 330 1300 333	800 800 250 1000 250	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
TLV AGW MAK TLV VLA TLV HTP VLEP WEL TLV GVI	CZE DEU DEU DNK ESP EST FIN FRA GBR GRC HRV	50 250 270 270 260 266 260 270 260 266 260 260	200 200 200 200 200 200 200 200 200	1000 1080 1080 330 1300 333 325	800 800 250 1000 250	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
TLV AGW MAK TLV VLA TLV HTP VLEP WEL TLV GVI AK	CZE DEU DEU DNK ESP EST FIN FRA GBR GRC HRV HUN	50 250 270 270 260 266 260 270 260 266 260 260	200 200 200 200 200 200 200 200 200 200	1000 1080 1080 330 1300 333 325	800 800 250 1000 250	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN		
TLV AGW MAK TLV VLA TLV HTP VLEP WEL TLV GVI AK VLEP	CZE DEU DEU DNK ESP EST FIN FRA GBR GRC HRV HUN	50 250 270 270 260 266 260 260 260 260 260 26	200 200 200 200 200 200 200 200 200 200	1000 1080 1080 330 1300 333 325	800 800 250 1000 250	SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN		

NOR

POL

PRT

SVK

SWE

NDS

VLE

NPHV

MAK

130

100

260

260

250

100

200

200

200

300

350

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						rage	11. 11/24	
OEL	EU	260	200			SKIN		
TLV-ACGIH		262	200	328	250			
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water shormal value for water, intermit Normal value of STP microorga Normal value for the terrestrial of Health - Derived no-effect	sediment tent release nisms compartment	DMFI		20,8 2,08 77 7,7 1,54 100		mg/l mg/k; mg/k; g/l mg/l mg/k;	g/d	
ricalar Berivea no encor	Effects on				Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral		8 mg/kg bw/d		systemic 8 mg/kg bw/d		systemic		systemic
Inhalation Skin	50 mg/m3	50 mg/m3 8 mg/kg bw/d	50 mg/m3	50 mg/m3 8 mg/kg bw/d	260 mg/m3	260 mg/m3 40 mg/kg bw/d	260 mg/m3	260 mg/m3 40 mg/kg bw/d
ETHYLBENZENE								
Threshold Limit Value	Country	TWA/8h		STEL/15min				
Type	Country	mg/m3	nnm	mg/m3	nnm			
TLV	BGR	435	ppm	545	ppm	SKIN		
TLV	CZE	200		500		SKIN		
AGW	DEU	440	100	880	200	SKIN		
MAK	DEU	88	20	176	40	SKIN		
TLV	DNK	217	50	110	10	Ortil		
VLA	ESP	441	100	884	200	SKIN		
TLV	EST	442	100	884	200	SKIN		
НТР	FIN	220	50	880	200	SKIN		
VLEP	FRA	88,4	20	442	100	SKIN		
WEL	GBR	441	100	552	125	SKIN		
TLV	GRC	435	100	545	125			
GVI	HRV	442	100	884	200	SKIN		
AK	HUN	442		884				
VLEP	ITA	442	100	884	200	SKIN		
RD	LTU	442	100	884	200	SKIN		
RV	LVA	442	100	884	200	SKIN		
OEL	NLD	215		430		SKIN		
TLV	NOR	20	5			SKIN		
NDS	POL	200		400				
VLE	PRT	442	100	884	200	SKIN		
NPHV	SVK	442	100	884		SKIN		
MAK	SWE	200	50	450	100			
ESD	TUR	442	100	884	200	SKIN		
OEL	EU	442	100	884	200	SKIN		
TLV-ACGIH		87	20					
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water s				100 55 13,7 1,37		µg/l µg/l mg/k <sub>l</sub> mg/k <sub>l</sub>		

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9,6 20

2,68

mg/l mg/kg mg/kg/d

Normal value for the food chain (secondary poisoning)
Normal value for the terrestrial compartment
Health - Derived no-effect level - DNEL / DMEL

Normal value for water, intermittent release

Normal value of STP microorganisms

Route of exposure	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		1,6 mg/kg bw/d				1,6
Inhalation Skin	NPI	VND NPI	NPI	15 mg/m3 NPI	293 mg/m3 NPI	VND NPI	NPI NPI	77 mg/m3 180 mg/kg 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.

Powder limit: Inhalable particulate control parameters: 10 mg/m3 (Time-Weighted Medium (TWA): (IT OEL)); Respiratory control parameters: 3 mg/m3 (TWA) :( IT OEL)).

## 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 Directive 89/686/EEC 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).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

## 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**

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# 9.1. Information on basic physical and chemical properties

Appearance aerosol colourless Colour

Odour characteristic of solvent

Odour threshold Not available Not available Melting point / freezing point Initial boiling point Not available Not available Boiling range Not available < 0 °C

Flash point Evaporation Rate Not available Flammability of solids and gases flammable gas Lower inflammability limit Not available Upper inflammability limit Not available Not available Lower explosive limit Upper explosive limit Not available Vapour pressure Not available Vapour density Not available

a 20°C 0,71 ÷ 0,75 g/ml Relative density

Solubility insoluble Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available Viscosity Not available not applicable Explosive properties Oxidising properties not applicable

#### 9.2. Other information

Molecular weight 62,361 Total solids (250°C / 482°F) 9,85 %

VOC (Directive 2004/42/EC): 85,88 % - 626,89 g/litre 55,73 % - 406,83 g/litre VOC (volatile carbon): Operating temperature: -10°C / +150°C (Peaks 170° C)

# **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.

# 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.

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# 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.

#### ETHYLBENZENE

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

#### 10.4. Conditions to avoid

Avoid overheating.

#### 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.

#### N-BUTYL ACETATE

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

# 10.6. Hazardous decomposition products

#### ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

# **SECTION 11. Toxicological information**

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

#### 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.

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POPULATION: ingestion of contaminated food or water; 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.

#### N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

#### XYLENE (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.

#### 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).

#### N-BUTYL ACETATE

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

Interactive effects

# XYLENE (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.

## 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).

# ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture:> 20 mg/l

LC50 (Inhalation - mists / powders) of the mixture. Not classified (no significant component)

LD50 (Oral) of the mixture:1931 mg/kg

LD50 (Dermal) of the mixture:>2000 mg/kg

## XYLENE (MIXTURE OF ISOMERS)

3523 mg/kg Rat LD50 (Oral) 4350 mg/kg Rabbit LD50 (Dermal) 26 mg/l/4h Rat LC50 (Inhalation)

#### PROPANE

800000 ppm 15 min LC50 (Inhalation)

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ETHYLBENZENE 3500 mg/kg Rat LD50 (Oral) 15354 mg/kg Rabbit LD50 (Dermal) 17.2 mg/l/4h Rat

METHANOL 1978 mg/kg bw rat LD50 (Oral) 123,3 mg/l/4h rat LC50 (Inhalation)

LC50 (Inhalation)

METHYL ACETATE 2000 mg/kg bw rat LD50 (Dermal) 49,2 mg/l/4h rabbit LC50 (Inhalation)

N-BUTYL ACETATE > 6400 mg/kg Rat LD50 (Oral) > 5000 mg/kg Rabbit LD50 (Dermal) 21,1 mg/l/4h Rat LC50 (Inhalation)

Methyl formate 1500 mg/kg bw rat LD50 (Oral) 4000 mg/kg bw rat LD50 (Dermal) 5,2 mg/l/4h rat LC50 (Inhalation)

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

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Does not meet the classification criteria for this hazard class STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

#### 12.1. Toxicity

**BUTANE** 

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

**PROPANE** 

85,82 mg/l/96h LC50 - for Fish 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 5,15 mg/l/72h

Plants

Chronic NOEC for Fish 3,3 mg/l 4 days Chronic NOEC for Crustacea 960 μg/l 7 days Chronic NOEC for Algae / 3,95 mg/l 4 days

Aquatic Plants

**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

METHYL ACETATE

LC50 - for Fish 300 mg/l/96h EC50 - for Crustacea 1,027 g/l EC50 - for Algae / Aquatic 120 mg/l/72h **Plants** Chronic NOEC for Algae / 120 mg/l 72 h

Aquatic Plants

N-BUTYL ACETATE

18 mg/l/96h 22 mg/l/48h

274,7 mg/l/72h

LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic

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Chronic NOEC for Crustacea 23,2 mg/l 21 days Chronic NOEC for Algae / 196 mg/l 72 h

Aquatic Plants

Methyl formate

LC50 - for Fish 115 mg/l/96h EC50 - for Crustacea 500 mg/l/48h EC50 - for Algae / Aquatic 1,079 g/l/72h

Plants

EC10 for Algae / Aquatic 131,2 mg/l/72h Plants Chronic NOEC for Fish 46 mg/l 4 days

12.2. Persistence and degradability

XYLENE (MIXTURE OF ISOMERS)

100 - 1000 mg/l Solubility in water

Biodegradability: Information not available

**BUTANE** 

0,1 - 100 mg/l Solubility in water

Rapidly biodegradable

**PROPANE** 

Solubility in water 0,1 - 100 mg/l

Rapidly biodegradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly biodegradable

**METHANOL** 

Solubility in water 1000 - 10000 mg/l

Rapidly biodegradable

METHYL ACETATE

Solubility in water 243500 mg/l

Rapidly biodegradable

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

Rapidly biodegradable

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Methyl formate

Rapidly biodegradable

# 12.3. Bioaccumulative potential

XYLENE (MIXTURE OF	
ISOMERS) Partition coefficient: n-	3,12
octanol/water BCF	25,9
BUTANE	
Partition coefficient: n- octanol/water	1,09
PROPANE	
Partition coefficient: n- octanol/water	1,09
ETHYLBENZENE	
Partition coefficient: n-	3,6
octanol/water	
METHANOL	
Partition coefficient: n- octanol/water	-0,77
BCF	0,2
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:	2,73
soil/water	•

0,18

METHYL ACETATE

Partition coefficient:

N-BUTYL ACETATE

soil/water

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Partition coefficient:

< 3

soil/water

#### 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 greater 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 evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, 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:

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# 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

# 14.6. Special precautions for user

ADR / RID: HIN - Kemler: -- Limited Quantities: 1

Tunnel restriction code: (D)

Special Provision: -

Pass.:

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

IATA: Cargo:

Maximum quantity: 100

Packaging instructions:

Ŕд Maximum

130 Packaging

quantity: 25 Ŕg

instructions: 130

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)

Substances subject to authorisarion (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:

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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.

# VOC (Directive 2004/42/EC) :

Special finishes.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

#### **SECTION 16. Other information**

Contiene: polvere per il rivestimento su base poliammide.

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

Flam. Gas 1 Flammable gas, category 1

Aerosol 1 Aerosol, category 1 Aerosol 3 Aerosol, category 3

Flam. Liq. 1 Flammable liquid, category 1 Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3

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. H224 Extremely flammable liquid and vapour. 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.

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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.

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

**EUH066** Repeated exposure may cause skin dryness or cracking.

- 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 (EU) 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

- Regulation (EU) 2015/830 of the European Parliament
   Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
   Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 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

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Nata for usage.	

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.

Changes to previous review:
The following sections were modified:
02 / 02 / 04 / 00 / 15