AN	MBRO-SOL S.R.L.		Revision nr. 15
			Dated 03/08/2017
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	Safety data s	heet	
SECTION 1. Identification of th	e substance/mixture and o	f the company/u	Indertaking
1.1. Product identifier			
Code:	Z358		
Product name Chemical name and synonym	Lamellar 98% Zinc 500 ml Protective zinc		
1.2. Relevant identified uses of the substa Intended use Cold spray g	nce or mixture and uses advised aga alvanizer consisting of synthetic resi		sion inhibitor based on zinc powder.
Identified Uses	Industrial	Professional	Consumer
Industrial Use	~	-	-
Professional Use	-	~	-
1.3. Details of the supplier of the safety da	ata sheet		
Name	AMBRO-SOL S.R.L.		
Full address	Via per Pavone del Mella n. 25020 Cigole (BS)	21	
District and Country	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		
	quality@ambro-sol.com		
	CS Fondazione Maugeri - Pavia)		
centro Antiveleni di Pavia: 0382 24444 (IRC centro Antiveleni di Bergamo: 800 883300 (centro Antiveleni di Firenze: 055 7947819 (C centro Antiveleni di Roma: 06 3054343 (Pol centro Antiveleni di Napoli: 081 7472870 (O centro Antiveleni in Spagna: 91 5620420 (In centro Antiveleni in Francia: 01 40054848 (C	Ospedali Riuniti - Bergamo) Ospedale Careggi - Firenze) iclinico Gemelli - Roma) spedale Cardarelli - Napoli) Ist. Nacional de Toxicología y Ciencia		
entro Antiveleni di Bergamo: 800 883300 (entro Antiveleni di Firenze: 055 7947819 (C entro Antiveleni di Roma: 06 3054343 (Pol entro Antiveleni di Napoli: 081 7472870 (O entro Antiveleni in Spagna: 91 5620420 (In	Ospedali Riuniti - Bergamo) Ospedale Careggi - Firenze) iclinico Gemelli - Roma) spedale Cardarelli - Napoli) Ist. Nacional de Toxicología y Ciencia		
entro Antiveleni di Bergamo: 800 883300 (entro Antiveleni di Firenze: 055 7947819 (C entro Antiveleni di Roma: 06 3054343 (Pol entro Antiveleni di Napoli: 081 7472870 (O	Ospedali Riuniti - Bergamo) Ospedale Careggi - Firenze) iclinico Gemelli - Roma) spedale Cardarelli - Napoli) st. Nacional de Toxicología y Ciencia Centre Antipoison et de Toxicovigilan		

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	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

Revision nr. 15 AMBRO-SOL S.R.L. Dated 03/08/2017 Printed on 03/08/2017 Z358 – Lamellar 98% Zinc 500 ml Page n. 2/23 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. H315 Causes skin irritation. May cause drowsiness or dizziness. H336 H411 Toxic to aquatic life with long lasting effects. Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, Do not spray on an open flame or other ignition source. P211 P251 Do not pierce or burn, even after use. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . . P331 Do NOT induce vomiting. P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F. P102 Keep out of reach of children. **Contains:** naphtha (petroleum), hydrotreated light ethyl acetate naphtha (petrol.) hydrotreated heavy

VOC (Directive 2004/42/EC) :

Special finishes.

VOC given in g/litre of product in a ready-to-use condition : 527,80

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

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:

The full wording of hazard (H) phrases is given in section	on 16 of the sheet.	
Identification		Classification 1272/2008 (CLP)
PROPANE		
CAS 74-98-6	19 ≤ x < 23	Flam. Gas 1 H220, Press. Gas (Liq.) H280, Note U
EC 200-827-9		
INDEX 601-003-00-5		
Reg. no. 01-2119486944-21-0046		
XYLENE (MIXTURE OF ISOMERS)		
CAS 1330-20-7	11 ≤ x < 15	Flam. Liq. 3 H226, Acute Tox. 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		
NAPHTHA (PETROLEUM), HYDROTREATED		
LIGHT CAS 64742-49-0	11 ≤ x < 15	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411, Note P
EC 265-151-9		
INDEX 649-328-00-1		
Reg. no. 012119484651-34-XXXX		
Dimethyl carbonate		
CAS 616-38-6	9≤x< 11	Flam. Liq. 2 H225
EC 210-478-4		
INDEX 607-013-00-6		
Hydrocarbons C4		
CAS 87741-01-3	9≤x< 11	Flam. Gas 1 H220, Press. Gas H280, Note K U
EC 289-339-5		
INDEX 649-113-00-2		
Reg. no. 01-2119480480-41-XXXX		
ALUMINIUM POWDER (STABILIZED)	1 4 4 4 0	Flow Oak A 1999 Nets T
CAS 7429-90-5	1≤x< 3	Flam. Sol. 1 H228, Note T
EC 231-072-3		
Reg. no. 01-2119529243-45-XXXX		
NAPHTHA (PETROL.) HYDROTREATED HEAVY CAS 64742-48-9	1≤x< 3	Flow Lin 2 11226 App Tox
CAS 64/42-48-9	$1 \ge X \le 3$	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Note P
EC 265-150-3		
INDEX -		
ETHYL ACETATE		
CAS 141-78-6	1≤x< 3	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 205-500-4		

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INDEX 607-022-00-5 Reg. no. 01-2119475103-46-XXXX ZINC POWDER - ZINC DUST CAS 7440-66-6 $1 \le x \le 1$ EC 231-175-3 INDEX 030-001-01-9 Reg. no. 01-2119467174-37-XXXX	< 2,5	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Note T	

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: 30,93 %

Naphtha (petroleum), hydrotreated heavy: a complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C13 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).

Hydrocarbons, C6, isoalkanes, <5% n-hexane: a complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).

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

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SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular. 5.2. Special hazards arising from the substance or mixture HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products. 5.3. Advice for firefighters GENERAL INFORMATION Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137). **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.

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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:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА
		МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА № 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

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LVA	Latvija	Ķīmisko vielu aroda ekspozīcijas robežvērtības (AE	R) darba vides gaisā
NLD	Nederland	2012 Databank of the social and Economic Concil of Net AF 2011:18	herlands (SER) Values,
NOR	Norge	Veiledning om Administrative normer for forurensni	ng i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITY 16 grudnia 2011r	KI SPOŁECZNEJ z dnia
PRT	Portugal	Ministério da Economia e do Emprego Consolida a em matéria de protecção dos trabalhadores contra segurança e a saúde devido à exposição a agente	os riscos para a
		Diaro da Republica I 26; 2012-02-06	quimees no trabaino
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 20. jú	na 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	TLV-ACGIH	ACGIH 2016	

Sverige Türkiye TLV-ACGIH RCP TLV EU ACGIH TLVs and BEIs – Appendix H

PROPANE

l	FROFANE					
	Threshold Limit Value	Country			OTEL /4 Emain	
	Туре	Country	TWA/8h		STEL/15min	
			mg/m3	ppm	mg/m3	ppm
	TLV	BGR	1800			
	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		

XYLENE (MIXTURE OF ISOMERS)

	Threshold Limit Value						
	Туре	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
	TLV	BGR	221		442		SKIN
	TLV	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	
1							

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						Pa	age n. 8/23	
GVI	HRV	221	50	442	100	SKIN		
AK	HUN	221		442		SKIN		
VLEP	ITA	221	50	442	100	SKIN		
DEL	NLD	210		442		SKIN		
ΓLV	NOR	108	25			SKIN		
NDS	POL	100						
/LE	PRT	221	50	442	100	SKIN		
NPHV	SVK	221	50	442		SKIN		
MV	SVN	221	50			SKIN		
MAK	SWE	221	50	442	100	SKIN		
ESD	TUR	221	50	442	100	SKIN		
DEL	EU	221	50	442	100	SKIN		
JEL TLV-ACGIH	20	434	30 100	442 651	150	ONIN		
Predicted no-effect concentration		-5-	100	001	150			
Normal value in fresh water	OIT-FINEC			327		μg	/1	
Normal value in marine water Normal value for fresh water se Normal value for marine water Sormal value of STP microorga Normal value for the terrestrial Health - Derived no-effect	sediment anisms compartment	DMEL		327 12,46 12,46 6,58 2,31		mg mg	ı/kg/d ı/kg/d	
	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
Dral				1,6 mg/kg bw/d 14,8 mg/m3			289 mg/m3	77 mg/m3
				100 malle				180 mg/kg
Skin				108 mg/kg bw/d				bw/d
NAPHTHA (PETROLEUM)), HYDROTREAT	ED LIGHT						
NAPHTHA (PETROLEUM) Fhreshold Limit Value), HYDROTREAT	ED LIGHT TWA/8h						
NAPHTHA (PETROLEUM) Fhreshold Limit Value			ppm	bw/d	ppm			
IAPHTHA (PETROLEUM) Threshold Limit Value		TWA/8h	ppm	bw/d	ppm			
NAPHTHA (PETROLEUM) Inreshold Limit Value Type DEL	Country	TWA/8h	ppm	bw/d STEL/15min mg/m3	ppm			
NAPHTHA (PETROLEUM) Threshold Limit Value ^{Type} DEL RCP TLV	Country EU t level - DNEL / C	TWA/8h mg/m3 1200	ppm	bw/d STEL/15min mg/m3				
NAPHTHA (PETROLEUM) Inreshold Limit Value Type DEL RCP TLV Health - Derived no-effect	Country EU	TWA/8h mg/m3 1200	ppm Chronic local	bw/d STEL/15min mg/m3 72 Chronic	ppm Effects on workers Acute local	Acute	Chronic local	bw/d Chronic
NAPHTHA (PETROLEUM) Threshold Limit Value Type DEL RCP TLV Health - Derived no-effect Route of exposure	Country EU t level - DNEL / D Effects on consumers	TWA/8h mg/m3 1200 DMEL		bw/d STEL/15min mg/m3 72 Chronic systemic	Effects on workers	Acute systemic	Chronic local	bw/d
NAPHTHA (PETROLEUM) Threshold Limit Value Type DEL RCP TLV Health - Derived no-effect Route of exposure Dral	Country EU t level - DNEL / D Effects on consumers	TWA/8h mg/m3 1200 DMEL		bw/d STEL/15min mg/m3 72 Chronic systemic 1301 mg/kg bw/d	Effects on workers		Chronic local	bw/d Chronic systemic
NAPHTHA (PETROLEUM) Threshold Limit Value Type DEL RCP TLV Health - Derived no-effect Route of exposure Dral nhalation	Country EU t level - DNEL / D Effects on consumers	TWA/8h mg/m3 1200 DMEL		bw/d STEL/15min mg/m3 72 Chronic systemic 1301 mg/kg bw/d 1137 mg/m3	Effects on workers		Chronic local	bw/d Chronic systemic 5306 mg/m3
NAPHTHA (PETROLEUM) Threshold Limit Value Type DEL RCP TLV Health - Derived no-effect Route of exposure Dral nhalation	Country EU t level - DNEL / D Effects on consumers	TWA/8h mg/m3 1200 DMEL		bw/d STEL/15min mg/m3 72 Chronic systemic 1301 mg/kg bw/d	Effects on workers		Chronic local	bw/d Chronic systemic
APHTHA (PETROLEUM) Threshold Limit Value Type DEL RCP TLV Health - Derived no-effect Route of exposure Dral nhalation Skin Dimethyl carbonate	Country EU t level - DNEL / C Effects on consumers Acute local	TWA/8h mg/m3 1200 DMEL		bw/d STEL/15min mg/m3 72 Chronic systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg	Effects on workers		Chronic local	bw/d Chronic systemic 5306 mg/m3 13964 mg/kg
NAPHTHA (PETROLEUM) Threshold Limit Value Type DEL RCP TLV Health - Derived no-effect Route of exposure Dral nhalation Skin Dimethyl carbonate Predicted no-effect concentration Normal value in fresh water Normal value in marine water	Country EU t level - DNEL / C Effects on consumers Acute local	TWA/8h mg/m3 1200 DMEL		bw/d STEL/15min mg/m3 72 Chronic systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg	Effects on workers		1	bw/d Chronic systemic 5306 mg/m3 13964 mg/kg
NAPHTHA (PETROLEUM) Threshold Limit Value Type OEL RCP TLV Health - Derived no-effect Route of exposure Oral Inhalation Skin Dimethyl carbonate Predicted no-effect concentration Normal value in fresh water Normal value in marine water se	Country EU t level - DNEL / C Effects on consumers Acute local	TWA/8h mg/m3 1200 DMEL		bw/d STEL/15min mg/m3 72 Chronic systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg bw/d	Effects on workers	systemic	1	bw/d Chronic systemic 5306 mg/m3 13964 mg/kg
Skin NAPHTHA (PETROLEUM) Threshold Limit Value Type OEL RCP TLV Health - Derived no-effect Route of exposure Oral Inhalation Skin Dimethyl carbonate Predicted no-effect concentration Normal value in fresh water Normal value for fresh water see Normal value for marine water see Normal value for the terrestrial	Country EU t level - DNEL / C Effects on consumers Acute local on - PNEC ediment sediment sediment tittent release anisms	TWA/8h mg/m3 1200 DMEL		bw/d STEL/15min mg/m3 72 Chronic systemic 1301 mg/kg bw/d 1137 mg/kg bw/d 1377 mg/kg bw/d	Effects on workers	systemic	л л уЛ	bw/d Chronic systemic 5306 mg/m3 13964 mg/kg

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	Effects on				Effects on workers			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Dral		50 mg/kg		250 µg/kg		Systemic		Systemic
Inhalation	42,5 mg/m3	bw/day 42,5 mg/m3	VND	bw/day 1,1 mg/m3	57 mg/m3	57 mg/m3	NPI	4,4 mg/m3
Skin	8,9 mg/cm2	33,3 mg/kg bw/day	NPI	250 µg/kg bw/day	17,7 mg/cm2	66,7 µg/kg bw/day	NPI	500 mg/kg bw/day
Hydrocarbons C4								
Health - Derived no-effe	ct level - DNEL / D Effects on	MEL			Effects on			
D	consumers		.	<u>.</u>	workers	• .		o
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			918 mg/m3	66,4 µg/m3			1530 mg/m3	2,21 mg/m3
Skin								23,4 mg/kg bw/d
								DW/U
ALUMINIUM POWDER (STABILIZED)							
Threshold Limit Value	Country	TWA/8h		STEL/15min				
	,	mg/m3	ppm	mg/m3	ppm			
TLV	BGR	1,5	1.6		FF	RESP		
TLV	CZE	10						
MAK	DEU	1,5						
MAK	DEU	4				INHAL		
MAK	DEU	0,3				RESP		
TLV	DNK	5				NEO1		
VLA	ESP	10						
TLV	EST	4						
VLEP	FRA	5						
WEL	GBR	4						
TLV	GRC	10						
AK	HUN	6						
RD	LTU	5						
RV	LVA	2						
MAC	NLD	10						
TLV NDS	NOR POL	2 1,2				RESP		
NDS	POL	2,5						
	SVK	4				INHAL		
	SVK	1,5				RESP		
MAK	SWE	2	0.0			RESP		
TLV-ACGIH Predicted no-effect concentra	ation - PNEC	1	0,9					
Normal value in fresh water				VND				
Normal value in marine water				VND				
Normal value for fresh water				VND				
Normal value for marine water				VND				
Normal value for water, interr				VND				
Tronnal value for water, illen	ganisms			20		mg/l		

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Normal value for the food cha	iin (secondary poison	ing)		VND					
Normal value for the terrestria	al compartment			VND					
Normal value for the atmosph	iere			NPI					
Health - Derived no-effe	ct level - DNEL / [OMEL							
	Effects on				Effects on workers				
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic	
Oral				systemic		systemic NPI		systemic 3,95 mg/kg	
Inhalation						NPI	3,72 mg/m3	bw/d 3,72 mg/m3	
							0,1 <u>2</u> g/0	o,. 2g,o	
NAPHTHA (PETROL.) H Threshold Limit Value	YDROTREATED H	IEAVY							
Туре	Country	TWA/8h		STEL/15min					
		mg/m3	ppm	mg/m3	ppm				
MAK	DEU	300	50	600	100				
NDS	POL	300		900					
Health - Derived no-effe	ct level - DNEL / [OMEL							
	Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Inhalation				900 mg/m3		Systemic		Systemic	
Skin				300 mg/kg				300 mg/kg	
ETHYL ACETATE									
Threshold Limit Value	Country	TWA/8h		STEL/15min					
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	country	mg/m3	ppm	mg/m3	ppm				
TLV	BGR	800	ppin	ilig/ilio	ppm				
TLV	CZE	700		900					
AGW	DEU	1500	400	3000	800				
MAK	DEU	1500	400	3000	800				
TLV	DNK	540	400 150	3000	000				
VLA	ESP	1460	400	1100	200				
TLV	EST	500	150	1100	300				
HTP	FIN	1100	300	1800	500				
VLEP	FRA	1400	400						
WEL	GBR		200		400				
TLV	GRC	1400	400						
	HRV		200		400				
				1400					
AK	HUN	1400							
AK RD	HUN LTU	500	150	1100 (C)	300 (C)				
AK RD RV	HUN LTU LVA	500 200	150		300 (C)				
AK RD RV OEL	HUN LTU LVA NLD	500 200 550		1100 (C) 1100	300 (C)				
AK RD RV OEL TLV	HUN LTU LVA NLD NOR	500 200 550 550	150 150	1100	300 (C)				
GVI AK RD RV OEL TLV NDS	HUN LTU LVA NLD NOR POL	500 200 550 550 200	150	1100 600	300 (C)				
AK RD RV OEL TLV NDS NPHV	HUN LTU LVA NLD NOR POL SVK	500 200 550 550 200 1500	150 400	1100 600 3000					
AK RD RV OEL TLV	HUN LTU LVA NLD NOR POL	500 200 550 550 200	150	1100 600	300 (C) 300				
AK RD RV OEL TLV NDS NPHV	HUN LTU LVA NLD NOR POL SVK	500 200 550 550 200 1500	150 400	1100 600 3000					

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Predicted no-effect concentration - PNEC		
Normal value in fresh water	240	µg/l
Normal value in marine water	24	μg/l
Normal value for fresh water sediment	1,15	µg/kg
Normal value for marine water sediment	115	µg/kg
Normal value for water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the food chain (secondary poisoning)	200	mg/kg
Normal value for the terrestrial compartment	148	µg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

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			VND	4,5 mg/kg				
Inhalation Skin	734 mg/kg	734 mg/kg	367 mg/m3 VND	367 mg/m3 37 mg/kg	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3 63 mg/kg

ZINC POWDER - ZINC DUST

Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
MAK	DEU	0,1		0,4		RESP		
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water Normal value in marine water Normal value for fresh water see Normal value for marine water s Normal value of STP microorga Normal value for the terrestrial of	ediment nisms compartment			20,6 6,1 117,8 56,5 100 35,6		µg/l µg/l mg/k mg/k µg/l mg/k	g/d	
Health - Derived no-effect	Effects on consumers	DWIEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		830 µg/kg bw/d				
Inhalation Skin	NPI NPI	NPI NPI	NPI NPI	2,5 mg/m3 83 mg/kg/d	NPI NPI	NPI NPI	NPI NPI	5 mg/m3 83 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.

TLV of solvent mixture: 466 mg/m3

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.

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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).

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.

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

	Appearance Colour Odour Odour threshold pH Melting point / freezing point Initial boiling point Boiling range Flash point Evaporation Rate Flammability of solids and gases Lower inflammability limit Upper inflammability limit Upper explosive limit Upper explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties	aerosol light grey characteristic of solvent Not available Not available Not available Not available Not available flammable gas Not available Not available
	Explosive properties	not applicable
	9.2. Other information	
9.2. Other information	Total solids (250°C / 482°F) VOC (Directive 2004/42/EC) : VOC (volatile carbon) :	4,62 % 72,90 % - 527,80 g/litre 85,79 % - 621,10 g/litre

SECTION 10. Stability and reactivity

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10.1. Reactivity

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

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and 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.

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.

Dimethyl carbonate May form explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

ZINC POWDER - ZINC DUST

Risk of explosion on contact with: ammonium nitrate,ammonium sulphide,barium peroxide,lead nitride,chlorates,chromium trioxide,sodium hydroxide,oxidising agents,performic acid,acids,tetrachloromethane,water.May react dangerously with: alkaline hydroxides,bromine pentafluoride,calcium chloride,fluorine,hexachloroethane,nitrobenzene,potassium dioxide,carbon disulphide,silver.Reacts with: strong acids,strong alkalis.May develop: hydrogen.

10.4. Conditions to avoid

Avoid overheating.

ETHYL ACETATE Avoid exposure to: light,sources of heat,naked flames.

10.5. Incompatible materials

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

Dimethyl carbonate

Avoid contact with: oxidising agents, strong reducing agents.

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ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

ZINC POWDER - ZINC DUST Incompatible with: water,acids,strong alkalis.

10.6. Hazardous decomposition products

Information not available

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

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.

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.

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.

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:Not classified (no significant component) LD50 (Dermal) of the mixture:>2000 mg/kg

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ALUMINIUM POWDER (STABILIZED)	
5900 mg/kg bw rat	
.D50 (Oral)	
88 mg/m3/4h rat	
C50 (Inhalation)	
INC POWDER - ZINC DUST	
000 mg/kg bw rat	
LD50 (Oral)	
(YLENE (MIXTURE OF ISOMERS)	
> 3000 mg/kg rat _D50 (Oral)	
> 1700 mg/kg rabbit	
_D50 (Dermal)	
5000 ppm/4h rat	
_C50 (Inhalation)	
PROPANE	
300000 ppm 15 min	
C50 (Inhalation)	
ETHYL ACETATE	
I1,3 mg/kg bw rat	
_D50 (Oral)	
20000 mg/kg bw rabbit LD50 (Dermal)	
NAPHTHA (PETROL.) HYDROTREATED HEAVY	
5000 mg/kg bw Rat	
LD50 (Öral) 2000 mg/kg rabbit	
LD50 (Dermal)	
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	
3790 mg/kg bw rat LD50 (Oral)	
1350 mg/kg bw rabbit	
LD50 (Dermal)	
34,73 mg/l/4h air (rat)	
_C50 (Inhalation)	
Dimethyl carbonate	
5000 mg/kg/bw rat	
LD50 (Oral)	
2000 mg/kg/ bw rabbit LD50 (Dermal)	
5,36 mg/l/4h rat	
C50 (Inhalation)	
Hydrocarbons C4	
1442,738 mg/l 15 min rat	
C50 (Inhalation)	
SKIN CORROSION / IRRITATION	
Causes skin irritation	
SERIOUS EYE DAMAGE / IRRITATION	
Does not meet the classification criteria for this hazard class	
RESPIRATORY OR SKIN SENSITISATION	

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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".

REPRODUCTIVE TOXICITY

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

May cause drowsiness or dizziness STOT - REPEATED EXPOSURE

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

Toxic for aspiration

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

ALUMINIUM POWDER (STABILIZED) LC50 - for Fish	> 78 µg/l/96h
EC50 - for Crustacea	1,5 mg/l/48h
EC50 - for Algae / Aquatic Plants	16,9 µg/l
Chronic NOEC for Fish	25,1 µg/l 7 days
Chronic NOEC for Crustacea	5 µg/l 48 h
Chronic NOEC for Algae / Aquatic Plants	45,7 mg/l 4 days
ZINC POWDER - ZINC DUST LC50 - for Fish	112 µg/l/96h
EC50 - for Crustacea	155 µg/l/48h
Chronic NOEC for Fish	720 µg/l 84 days
Chronic NOEC for Crustacea	300 µg/l 3 months
Chronic NOEC for Algae / Aquatic Plants	20 µg/l 4 days
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

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Chronic NOEC for Fish	1,3 mg/l 56 days	
Chronic NOEC for Crustacea	960 µg/l 7 days	
Chronic NOEC for Algae /	440 μg/l 73 h	
Aquatic Plants	· · · • p.g. · · • · ·	
PROPANE		
LC50 - for Fish	85,82 mg/l/96h	
EC50 - for Crustacea	41,82 mg/l/48h	
ETHYL ACETATE		
LC50 - for Fish	230 mg/l/96h	
EC50 - for Algae / Aquatic Plants	100 mg/l/72h	
Chronic NOEC for Fish	9,65 mg/l 32 days	
Chronic NOEC for Crustacea	2,4 mg/l 21 days	
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT		
LC50 - for Fish	8,41 mg/l/96h	
EC50 - for Crustacea	4,7 mg/l/48h	
EC50 - for Algae / Aquatic Plants	15,65 mg/l/72h	
Chronic NOEC for Algae / Aquatic Plants	6,47 mg/l	
Dimethyl carbonate		
LC50 - for Fish	1134 mg/l/96h 4 days	
EC50 - for Crustacea	> 80 mg/l/48h	
EC50 - for Algae / Aquatic	> 70 mg/l/72h	
Plants Chronic NOEC for Fish	100 mg/l 4 days	
Chronic NOEC for Crustacea	25 mg/l 21 days	
Chronic NOEC for Algae / Aquatic Plants	> 50 mg/l 72 h	
Hydrocarbons C4		
LC50 - for Fish	19 mg/l/96h	
EC50 - for Crustacea	11 mg/l/48h	
12.2. Persistence and degradability		
PROPANE Global Warming Potential (GWP): 3. Ozo	one Depletion Potential (ODP): 0.	
ALUMINIUM POWDER (STABILIZED)		
Solubility in water	0 mg/l	
Biodegradability: Information not availab	e	
ZINC POWDER - ZINC		
DUST		
Solubility in water	0,1 - 100 mg/l	

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Biodegradability: Information not availa	ble	
XYLENE (MIXTURE OF ISOMERS)		
Solubility in water Rapidly biodegradable	146 - 208 mg/L @ 25 °C and pH 7 mg/l	
PROPANE		
Solubility in water	0,1 - 100 mg/l	
Rapidly biodegradable		
ETHYL ACETATE		
Solubility in water	> 10000 mg/l	
Rapidly biodegradable		
NAPHTHA (PETROL.) HYDROTREATED HEAVY Rapidly biodegradable		
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT Rapidly biodegradable		
Dimethyl carbonate		
Rapidly biodegradable		
Hydrocarbons C4		
Rapidly biodegradable		
12.3. Bioaccumulative potential		
XYLENE (MIXTURE OF		
ISOMERS) Partition coefficient: n-	3,12	
octanol/water		
BCF	25,9	
PROPANE		
Partition coefficient: n- octanol/water	1,09	
ETHYL ACETATE		
Partition coefficient: n- octanol/water	0,68	

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BCF	30
12.4. Mobility in soil	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73
NAPHTHA (PETROL.) HYDROTREATED HEAVY Partition coefficient: soil/water	1,78
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT Partition coefficient: soil/water	1,78
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

Hydrocarbons C4 German Water Hazard Class (WGK): 1.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Product residues are considered hazardous special waste. Do not dispose of in wastewater. Empty cylinders, although completely emptied, should not be dispersed in the environment. The overheated aerosol container at a temperature above 50°C may burst even if it contains a small gas residue. Waste transport may be subject to ADR. Refer to applicable regulations.

European Waste Catalog (contaminated containers): Aerosol as a household waste is excluded from the application of the above standard. The exhausted commercial / industrial aerosol can be classified as: 15.01.10 *: packaging containing residues of dangerous or contaminated substances.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 1950 IATA:

14.2. UN proper shipping name

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS (NAPHTHA
	(PETROLEUM),
	HYDROTREATE

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IATA:	D LIGHT) AEROSOLS, FLAMMABLE			
4.3. Transport haz	ard class(es)			
ADR / RID:	Class: 2	Label: 2.1	8	
IMDG:	Class: 2	Label: 2.1	8	
IATA:	Class: 2	Label: 2.1	*	
4.4. Packing grou	p		•	
ADR / RID, IMDG, IATA:	-			
14.5. Environmenta	I hazards			
ADR / RID:	Environmentally Hazardous	<		
IMDG:	Marine Pollutant	<		
IATA:	NO		V	
For Air transport, en	vironmentally hazardou	us mark is only mandatory for UN 3077 and U	IN 3082.	
14.6. Special preca	utions for user			
ADR / RID:		HIN - Kemler:	Limited Quantities: 1 L	Tunnel restriction code: (D)
		Special Provision: -	-	
IMDG:		EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:		Cargo:	– aximum quantity: 100 Kg	Packaging instructions: 130
		Pass.:	Maximum quantity: 25 Kg	Packaging instructions: 130
		Special Instructions:	A802	

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-E2

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

Product 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:

40

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.

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

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. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Flam. Sol. 1	Flammable solid, category 1
Press. Gas (Liq.)	Liquefied gas
Press. Gas	Pressurised gas
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1

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Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
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.
H228	Flammable solid.
H280	Contains gas under pressure; may burst if heated.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
FUH066	Popostod ovposuro mov causo skip druposs or cracking

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals

- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- 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).

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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:

01 / 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 13 / 15 / 16.