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G61

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878

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

1.1. Product identifier

Product name G61

UFI: EFRV-E0XA-V00M-3W9K

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

Intended use 98% zinc in aerosol.

Identified Uses	Industrial	Professional	Consumer
Consumer	-	-	. 4
Industrial Use	~	-	-
Professional Use	-	✓	-
		•	
1.3. Details of the supplier of the safety data sheet	t .		
Name	Friulsider s.p.a.		
Full address	Via Trieste n.1		
District and Country	33048 S.Giovanni al Natison	e (UD)	
	Italia		

tel. +39 0432 747911 Monday-Friday 8:30 am - 5:30 pm

e-mail address of the competent person

responsible for the Safety Data Sheet environmental@friulsider.com

1.4. Emergency telephone number

For urgent inquiries refer to

IT - Centro Antiveleni e Centro Nazionale di Informazione Tossicologica: Tel. 0382 24444 (IRCCS Fondazione Salvatore Maugeri - Pavia)

IT - Centro Antiveleni di Milano: Tel. 02 66101029 (Ospedale Niguarda Ca' Granda - Milano)

IT - Centro Antiveleni di Roma: Tel. 06 3054 343 (Policlinico Universitario A. Gemelli IRCCS - Roma)

IT - Centro Antiveleni di Bergamo: Tel. 800 883300 (ASST Papa Giovanni XXIII - Bergamo)

IT - Centro Antiveleni di Firenze: Tel. 055 794 7819 (Azienda Ospedaliera Universitaria Careggi - Firenze)

IT - Centro Antiveleni di Napoli: Tel. 081 5453333 (Azienda Ospedaliera A. Cardarelli - Napoli)

AT - Vergiftungsinformationszentrale (VIZ): Tel. +43 01 406 4343 (Austria)

BE - Belgisch Antigifcentrum: Tel. 070 245245 (Belgium)

BG - НАЦИОНАЛЕН ЦЕНТЪР ПО ТОКСИКОЛО̀ГИЯ: Tel. +359 2 9154 233 (Bulgaria)

HR - Centar za kontrolu otrovanja: Tel. +385 1 2348342 (Croatia) CY - Τμήμα Επιθεώρησης Εργασίας (TEE): Tel. 1401 (Cyprus)

CZ - Toxikologické informační středisko (TIS): Tel. +420 224 919 293 or +420 224 915 402 (Czech Republic)

DK - Giftlinjen: Ring 82 12 12 12 (Denmark)

EE - Mürgistusteabekeskus: Tel. 16662 (Estonia)

FI - Myrkytystietokeskus: Tel. 0800 147 111 or 09 471 977 (Finland)

FR - ORFILA (INRS): Tél. +33 (0) 1 45 42 59 59 (France)

DE - Giftnotruf der Charité Universitätsmedizin Berlin: Tel. +49 030 19240 (Germany)



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GR - Κέντρο Δηλητηριάσεων: Τηλ. 210 7793777 (Greece)

HU - Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ): Tel. +36 80 20 1199 (Hungary)

IS - Eitrunarmiðstöð: Tel. 543 2222 (Iceland)

IE - National Poisons Information Centre (NPIC): Tel. 01 8092566 or 01 8379964 (Republic of Ireland)

LV - Latvian Poisons Information Centre: Tel. +371 67042473 (Latvia)

LT - Apsinuodijimų Informacijos biuras: Tel. 8-5 236 2052 (Lithuania)

LU - Giftinformationszentrum: Tel. +352 8002 5500 (Luxembourg)

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

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

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

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

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

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

SI - Center za klinično toksikologijo in farmakologijo: Tel. 112 (Slovenia)

ES - Servicio de Información Toxicológica (SIT) España: Tel.+34 91 562 04 20 (Spain)

SE - Giftinformationscentralen: Tel. 112 (Sweden)

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

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)

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 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity,	H411	Toxic to aquatic life with long lasting effects.
category 2		

2.2. Label elements

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

Hazard pictograms:







Signal words:

Danger



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Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation. H315 Causes skin irritation.

H336 May cause drowsiness or dizziness. 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.

P251 Do not pierce or burn, even after use.

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

P501 Dispose of contents/container in accordance with local regulations.

P102 Keep out of reach of children.

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

Hydrocarbons, C6, isoalkanes Contains:

Isobutyl acetate

VOC (Directive 2004/42/EC) :

Special finishes.

VOC given in g/litre of product in a ready-to-use condition : 562,69 Limit value: 840,00

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

Propane

Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to CAS 74-98-6 $15 \le x < 19$

Annex VI to the CLP Regulation: U

EC 200-827-9

INDEX 601-003-00-5

REACH Reg. 01-2119486944-21-

Hydrocarbons, C6, isoalkanes

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, CAS 64742-49-0 $15 \le x < 19$

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

Regulation: P

EC 265-151-9



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INDEX 649-328-00-1

REACH Reg. 012119484651-34-

XXXX

Xylene (Mixture of isomers)

CAS 1330-20-7 15 ≤ x < 19 Flam. Lig. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

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

Regulation: C

EC 215-535-7 LD50 Dermal: >1700 mg/kg, STA Inhalation vapours: 11 mg/l

INDEX 601-022-00-9

REACH Reg. 01-2119488216-32-

XXXX

Petroleum Resins

CAS 64742-16-1 11 ≤ x < 15 Aquatic Chronic 4 H413

EC 265-116-8

INDEX -

Dimethyl carbonate

CAS 616-38-6 $9 \le x < 11$ Flam. Liq. 2 H225

EC 210-478-4

EC 203-448-7

INDEX 607-013-00-6

Butane

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

Annex VI to the CLP Regulation: C, U

INDEX 601-004-00-0

REACH Reg. 01-2119474691-32-

XXXX

Zinc Powder (stabilised)

CAS 7440-66-6 5 ≤ x < 7 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification note

according to Annex VI to the CLP Regulation: T

EC 231-175-3

INDEX 030-001-01-9

REACH Reg. 01-2119467174-37-

XXXX

Isobutyl acetate

CAS 110-19-0 $1 \le x < 3$ Flam. Liq. 2 H225, STOT SE 3 H336, EUH066, Classification note according

to Annex VI to the CLP Regulation: C

EC 203-745-1

INDEX 607-026-00-7

REACH Reg. 01-2119488971-22-

XXXX

Aluminium Powder (stabilised)

CAS 7429-90-5 $1 \le x < 3$ Flam. Sol. 1 H228, Water-react. 2 H261, Classification note according to

Annex VI to the CLP Regulation: T

EC 231-072-3

INDEX 013-002-00-1

REACH Reg. 01-2119529243-45-

XXXX Isobutane

CAS 75-28-5 1≤x<3

EC 200-857-2

INDEX 601-004-00-0

REACH Reg. 01-2119485395-27-

XXXX

Flam. Gas 1A H220, Press. Gas H280



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Zinc oxide

CAS 1314-13-2 0,25 ≤ x < 0,5 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 215-222-5

INDEX 030-013-00-7

REACH Reg. 01-2119463881-32-

XXXX Quartz

CAS 14808-60-7 $0 \le x < 0.5$ STOT RE 2 H373

EC 238-878-4

INDEX -

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

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

Percentage of propellants: 29,00 %

Hydrocarbons, C6, isoalkanes

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

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.

Aluminium Powder (stabilised)

Dry sand; Special powder against metal combustion. Unsuitable extinguishing media: water, foam ABC powder, carbon dioxide (CO2).



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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.

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



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

NDS/NDSCh

Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. DEU Deutschland MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 ESP España Límites de exposición profesional para agentes químicos en España 2021 Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS FRA France Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών GRC Ελλάδα 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ `΄σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία``» ITA Italia Decreto Legislativo 9 Aprile 2008, n.81 Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes PRT Portugal químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos POL Polska Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020) Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; OEL EU Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive

2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. TLV-ACGIH ACGIH 2020

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1800

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

Hydrocarbons, C6, iso Health - Derived no-ef		OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1301 mg/kg bw/d				
Inhalation				1137 mg/m3				5306 mg/m3
Skin				1377 mg/kg				13964 mg/kg

bw/d

Xylene (Mixture of is							
Threshold Limit Val	Country	TWA/8h		STEL/15min	1	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	440	100	880	200	SKIN	
MAK	DEU	440	100	880	200	SKIN	
VLA	ESP	221	50	442	100	SKIN	
VLEP	FRA	221	50	442	100	SKIN	



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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 concentration	on - PNEC							
Normal value in fresh water				327	μg/			
Normal value in marine water				327	μg/			
Normal value for fresh water se	diment			12,46	mg,	/kg/d		
Normal value for marine water	sediment			12,46	mg	/kg/d		
Normal value of STP microorga	nisms			6,58	mg,	/1		
Normal value for the terrestrial	compartment			2,31	mg,	/kg/d		
Health - Derived no-effect		MEL						
	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				1,6 mg/kg		Зузтенно		Зузістно
Inhalation				bw/d 14,8 mg/m3			289 mg/m3	77 mg/m3
Skin				108 mg/kg				180 mg/kg
				bw/d				bw/d
Dimethyl carbonate								
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				500	μg/			
Normal value in marine water				50	μg/			
Normal value for fresh water se	diment			NEA				
Normal value for marine water	sediment			NEA				
Normal value for water, intermit	tent release			1	mg	/1		
Normal value of STP microorga	nisms			99	mg,	/1		
Normal value for the terrestrial	compartment			NEA				
Normal value for the atmospher	re			NPI				
Health - Derived no-effect	level - DNEL / D	MEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral						systemic		systemic
		50 mg/kg		systemic 250 µg/kg		Gyotomio		
Inhalation	42.5 ma/m3	bw/day	VND	250 μg/kg bw/day	57 mg/m3		NPI	4.4 mg/m3
Inhalation Skin	42,5 mg/m3 8,9 mg/cm2	bw/day 42,5 mg/m3 33,3 mg/kg	VND NPI	250 µg/kg bw/day 1,1 mg/m3 250 µg/kg	57 mg/m3 17,7 mg/cm2	57 mg/m3 66,7 μg/kg	NPI NPI	4,4 mg/m3 500 mg/kg
		bw/day 42,5 mg/m3		250 μg/kg bw/day 1,1 mg/m3		57 mg/m3		
Skin Butane		bw/day 42,5 mg/m3 33,3 mg/kg		250 µg/kg bw/day 1,1 mg/m3 250 µg/kg		57 mg/m3 66,7 μg/kg		500 mg/kg
Skin Butane Threshold Limit Value	8,9 mg/cm2	bw/day 42,5 mg/m3 33,3 mg/kg bw/day		250 µg/kg bw/day 1,1 mg/m3 250 µg/kg bw/day		57 mg/m3 66,7 μg/kg bw/day	NPI	500 mg/kg
Skin Butane		bw/day 42,5 mg/m3 33,3 mg/kg bw/day	NPI	250 µg/kg bw/day 1,1 mg/m3 250 µg/kg bw/day	17,7 mg/cm2	57 mg/m3 66,7 μg/kg	NPI	500 mg/kg
Skin Butane Threshold Limit Value	8,9 mg/cm2	bw/day 42,5 mg/m3 33,3 mg/kg bw/day		250 µg/kg bw/day 1,1 mg/m3 250 µg/kg bw/day		57 mg/m3 66,7 μg/kg bw/day	NPI	500 mg/kg



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MAK	DEU	2400	1000	9600	4000			
VLA	ESP		1000				Gases	
VLEP	FRA	1900	800					
TLV	GRC	2350	1000					
NDS/NDSCh	POL	1900		3000				
WEL	GBR	1450	600	1810	750			
WEL	GBR		4			RESP		
TLV-ACGIH					1000			

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Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	2		4		INHAL	
MAK	DEU	0,1		0,4		RESP	
Predicted no-effect co	ncentration - PNEC						
Normal value in fresh	water			20,6		μg/l	
Normal value in marin	e water			6,1		μg/l	
Normal value for fresh	water sediment			117,8		mg/kg/d	
Normal value for mari	ne water sediment			56,5		mg/kg/d	
Normal value of STP	microorganisms			100		μg/l	
Normal value for the t	errestrial compartment			35,6		mg/kg/d	

Health - Derived no-eff	ect level - DNEL / [OMEL						
	Effects on				Effects on			
	consumers				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	NPI	NPI	NPI	2,5 mg/m3	NPI	NPI	NPI	5 mg/m3
Skin	NPI	NPI	NPI	83 mg/kg/d	NPI	NPI	NPI	83 mg/kg bw/d

Talc			
Predicted no-effect concentration - PNEC			
Normal value in fresh water	597,97	mg/l	
Normal value in marine water	141,26	mg/l	
Normal value for fresh water sediment	31,33	mg/kg/d	
Normal value for marine water sediment	3,13	mg/kg/d	
Normal value for water, intermittent release	597,97	mg/l	
Normal value for the atmosphere	10	mg/m3	

Health - Derived no-ef	fect level - DNEL / [OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral		160 mg/kg bw/c		160 mg/kg				
				bw/d				
Inhalation	1,8 mg/m3	1,08 mg/m3	1,8 mg/m3	1,08 mg/m3	3,6 mg/m3	2,16 mg/m3	3,6 mg/m3	2,16 mg/m3
Skin			2,27 mg/cm2	2,16 mg/kg			4,54 mg/cm2	43,2 mg/kg
				bw/d				bw/d



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Гуре	Country	TWA/8h		STEL/15min		Remarks / Observati		
		mg/m3	ppm	mg/m3	ppm	Observati	UIIS	
AGW	DEU	300	62	600 (C)	124 (C)			
/LA	ESP	724	150					
/LEP	FRA	710	150	940	200			
ΓLV	GRC	950	200	950	200			
VLE .	PRT	241	50	723	150			
NDS/NDSCh	POL	240		720				
WEL	GBR	724	150	903	187			
DEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				170	μg	/I		
Normal value in marine water				17	μg	/I		
Normal value for fresh water	sediment			877	μд	/kg/d		
Normal value for marine wate	r sediment			87,7	μд	/kg/d		
Normal value of STP microor	ganisms			200	mç	g/l		
Normal value for the terrestria			75,5	μд	/kg/d			
Health - Derived no-effe		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		5 mg/kg bw/d		5 mg/kg bw/d		0,0000		0,01011110
nhalation	300 mg/m3		35,7 mg/m3	35,7 mg/m3	600 mg/m3	600 mg/m3	300 mg/m3	300 mg/m3
Skin	NPI	5 mg/kg bw/d	NPI	5 mg/kg bw/d	NPI	10 mg/kg	NPI	10 mg/kg
						bw/d		bw/d
Aluminium Powder (stal	oilised)							
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	/	
			nnm		nnm	Observati		
MAN	DELL	mg/m3	ppm	mg/m3	ppm	INILIAL		
MAK	DEU	4				INHAL		
MAK VLEP	DEU FRA	1,5				RESP		
TLV	GRC	5 10						
						INILIAI		
NEL	GBR	10				RESP		
WEL	GBR	4				KESP		
Predicted no-effect concentra	WOII - PNEC			VND				
Normal value in fresh water				VND				
Normal value in marine water				VND				
Normal value for fresh water :	sealment			VND				
Normal value for marine wate	and a self-self-self-self-self-self-self-self-							



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Normal value of STP microorganisms	20	mg/l	_
Normal value for the food chain (secondary poisoning)	VND		
Normal value for the terrestrial compartment	VND		
Normal value for the atmosphere	NPI		
Health - Derived no-effect level - DNEL / DMEL			

Health - Derived no-effect level - DNEL / DMEL									
	Effects on				Effects on				
	consumers				workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral						NPI		3,95 mg/kg bw/d	
Inhalation						NPI	3,72 mg/m3	3,72 mg/m3	

Isobutane						
Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		Remarks /
						Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH			800			

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Predicted no-effect concentration - PNEC Normal value for the atmosphere NPI

Zinc oxide							
Threshold Limit Valu	ie						
Туре	Country	TWA/8h		STEL/15min	1	Remarks /	
						Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	2		4		INHAL	
MAK	DEU	0,1		0,4		RESP	
IVIAIX	DEO	0, 1		0,4		RESI	
VLA	ESP	2		10			

MAK	DEU	2	4	INHAL	
MAK	DEU	0,1	0,4	RESP	
VLA	ESP	2	10		
VLEP	FRA	5			
TLV	GRC	5	10		
Predicted no-effect c	oncentration - PNEC				
Normal value in fresh	n water		20,6	μg/l	
Normal value in mari	ne water		6,1	μg/l	
Normal value for fres	h water sediment		117,8	mg/kg/d	
Normal value for mar	rine water sediment		56,5	mg/kg/d	
Normal value of STP	microorganisms		100	μg/l	
Normal value for the	terrestrial compartment		35,6	mg/kg/d	
Normal value for the	atmosphere		NPI		

Health - Derived no-eff	Health - Derived no-effect level - DNEL / DMEL									
	Effects on				Effects on					
	consumers				workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic		
				systemic		systemic		systemic		
Oral	NPI	NPI	NPI	830 µg/kg bw/d						
Inhalation	NPI	NPI	NPI	2,5 mg/m3	NPI	NPI	500 μg/m3	5 mg/m3		
Skin	NPI	NPI	NPI	83 mg/kg bw/d	NPI	NPI	NPI	83 mg/kg bw/d		



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Quartz Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP		0,05			RESP	
VLEP	FRA	0,1				RESP	
VLEP	ITA	0,1				RESP	
NDS/NDSCh	POL	0,1				RESP	
OEL	EU	0,1				RESP	

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: 649 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.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS

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

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

SECTION 9. Physical and chemical properties



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9.1. Information on basic physical and chemical properties

Information **Properties** Value Appearance aerosol Colour aluminum / dark gray Odour characteristic of solvent Odour threshold Not available Melting point / freezing point Not available Initial boiling point Not available Flammability flammable gas Not available Lower explosive limit Upper explosive limit Not available < 0 °C Flash point Auto-ignition temperature Not available Decomposition temperature Not available Not available Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture) Kinematic viscosity Not available Solubility Not available Partition coefficient: n-octanol/water Not available Vapour pressure Not available 0,75 ÷ 0,79 kg/l Temperature: 20 °C Density and/or relative density Relative vapour density Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F) 0 %

VOC (Directive 2004/42/EC) : 73,08 % - 562,69 g/litre VOC (volatile carbon) 53,97 % - 415,59 g/litre

Explosive properties not applicable Oxidising properties not applicable c.a. $400 \, ^{\circ}\mathrm{C}$

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Isobutyl acetate



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

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.

Zinc Powder (stabilised)

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.

Isobutyl acetate

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

Aluminium Powder (stabilised)

Develops hydrogen on contact with: water.

Develops hydrogen on contact with: acids,alkalis,halogens,oxidising agents.

10.4. Conditions to avoid

Avoid overheating.

Zinc Powder (stabilised)

Avoid exposure to: heat, moisture.

Isobutyl acetate

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

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



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Dimethy	/I carbonate
DILLIGUI	/i carbonate

Avoid contact with: oxidising agents, strong reducing agents.

Zinc Powder (stabilised)

Incompatible with: water,acids,strong alkalis.

Isobutyl acetate

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

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Zinc oxide

With LD50 values that systematically exceed 2000 mg / kg bw (body weight), mildly soluble compounds such as trizinc bis (orthophosphate) (LD50 Ã ©>5000) detect a low level of acute toxicity by ingestion, not resulting in a classification for acute toxicity by ingestion. Tritin bis (orthophosphate) has a low acute inhalation toxicity (for example, LC50 values <5.7 mg / L / 4H), a classification for acute inhalation toxicity.

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 action on the central nervous system (encephalopathies); irritant action on the skin, conjunctiva, cornea and respiratory system.

Interactive effects



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Xylene (Mixture of isomers)

Alcohol intake interferes with the metabolism of the substance, inhibiting it. Consumption of ethanol (0.8 g / kg) before a 4-hour exposure to xylenes vapors (145 and 280 ppm) causes a 50% decrease in the excretion of metilippuric acid, while the blood concentration of xylenes rises about 1.5-2 times. At the same time, there is an increase in the secondary side effects of ethanol. The metabolism of xylenes is enhanced by phenobarbital and 3-methyl-colanthrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with glycine, which results in a decrease in urinary excretion of metilippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: > 5 mg/l

ATE (Oral) of the mixture: Not classified (no significant component)

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

Propane

LC50 (Inhalation mists/powders): 800000 ppm 15 min

Hydrocarbons, C6, isoalkanes

 LD50 (Oral):
 > 2000 mg/kg bw rat

 LD50 (Dermal):
 > 2000 mg/kg bw rabbit

 LC50 (Inhalation vapours):
 > 25 mg/l/4h air (rat)

Xylene (Mixture of isomers)

 LD50 (Oral):
 > 3000 mg/kg rat

 LD50 (Dermal):
 > 1700 mg/kg rabbit

 LC50 (Inhalation vapours):
 5000 ppm/4h rat

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

Petroleum Resins

LD50 (Oral): 2000 mg/kg

Dimethyl carbonate

 LD50 (Oral):
 > 5000 mg/kg/bw rat

 LD50 (Dermal):
 > 2000 mg/kg/ bw rabbit

 LC50 (Inhalation vapours):
 > 5,36 mg/m3/4h rat

Butane

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

Zinc Powder (stabilised)

LD50 (Oral): > 2000 mg/kg bw rat

Isobutyl acetate

 LD50 (Oral):
 13413 mg/kg bw rat

 LD50 (Dermal):
 17400 mg/kg bw rabbit

 LC50 (Inhalation vapours):
 30 mg/l/6h rat



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Aluminium Powder (stabilised)	
LD50 (Oral): LC50 (Inhalation mists/powders):	> 15000 mg/kg bw rat 888 mg/m3/4h rat
Isobutane	
LC50 (Inhalation mists/powders):	> 1442,738 mg/l/15min rat
Zinc oxide	
LD50 (Oral): LD50 (Dermal): LC50 (Inhalation mists/powders):	> 2000 mg/kg bw rat/mouse 2000 mg/kg bw rat > 1,7 mg/l/4h rat
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) claims that "the data were found to be inadequate for an assessment of carcinogenic potential."

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

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

Petroleum Resins

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

Dimethyl carbonate

LC50 - for Fish 1134 mg/l/96h 4 days

EC50 - for Crustacea > 80 mg/l/48h
EC50 - for Algae / Aquatic Plants > 70 mg/l/72h
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

Aluminium Powder (stabilised)

LC50 - for Fish $$>78\ \mu g/l/96h$$ EC50 - for Crustacea $$1,5\ mg/l/48h$$



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EC50 - for Algae / Aquatic Plants 16,9 µg/l

Chronic NOEC for Fish 25,1 μ g/l 7 days Chronic NOEC for Crustacea 5 μ g/l 48 h Chronic NOEC for Algae / Aquatic Plants 45,7 mg/l 4 days

Zinc Powder (stabilised)

LC50 - for Fish 112 μ g/l/96h EC50 - for Crustacea 155 μ g/l/48h Chronic NOEC for Fish 720 μ g/l 84 days Chronic NOEC for Crustacea 300 μ g/l 3 months Chronic NOEC for Algae / Aquatic Plants 20 μ g/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
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

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

Isobutyl acetate

LC50 - for Fish 16,6 mg/l/96h
EC50 - for Crustacea 24,6 mg/l/48h
EC50 - for Algae / Aquatic Plants 321,5 mg/l/72h
Chronic NOEC for Crustacea 23,2 mg/l 21 days
Chronic NOEC for Algae / Aquatic Plants 1505 mg/l 72 h

Hydrocarbons, C6, isoalkanes

 LC50 - for Fish
 8,41 mg/l/96h

 EC50 - for Crustacea
 4,7 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 12 mg/l/72h

 Chronic NOEC for Algae / Aquatic Plants
 6,47 mg/l

Zinc oxide

LC50 - for Fish $> 112 \ \mu g/l/96h$ EC50 - for Crustacea $> 155 \ \mu g/l/48h$

Chronic NOEC for Fish $> 56 \mu g/l 3,867 months$



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Chronic NOEC for Crustacea 300 μ g/l 3 months Chronic NOEC for Algae / Aquatic Plants 313 μ g/l 5 days

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.

Dimethyl carbonate Rapidly degradable

Aluminium Powder (stabilised)

Solubility in water 0 mg/l

Degradability: information not available

Zinc Powder (stabilised)

Solubility in water 0,1 - 100 mg/l

Degradability: information not available

Xylene (Mixture of isomers)

Solubility in water 146 - 208 mg/L @ 25 °C and pH 7 mg/l

Rapidly degradable

Butane

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

Propane

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

Isobutyl acetate

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

Hydrocarbons, C6, isoalkanes

Rapidly degradable

Zinc oxide

Solubility in water 2,9 mg/l

Isobutane

Rapidly degradable

12.3. Bioaccumulative potential



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Xylene (Mixture of isomers)

Partition coefficient: n-octanol/water 3,12 BCF 25,9

Butane

Partition coefficient: n-octanol/water 1,09

Propane

Partition coefficient: n-octanol/water 1,09

Isobutyl acetate

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

Zinc oxide

BCF > 175

12.4. Mobility in soil

Xylene (Mixture of isomers)

Partition coefficient: soil/water 2,73

Hydrocarbons, C6, isoalkanes

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 ≥ than 0,1%.

12.6. Other adverse effects

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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.



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CONTAMINATED PACKAGING

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

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 50 ° C may 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.

The transport of waste may be subject to ADR.

European waste catalog code (contaminated containers):

Aerosol as domestic waste is excluded from the application of the aforementioned rule.

The exhausted aerosol for professional / industrial use can be classified:

15.01.11 *: metallic packaging containing dangerous solid porous matrices, including empty pressure containers.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG,

1950

IATA:

14.2. UN proper shipping name

ADR / RID: AEROSOLS

IMDG: AEROSOLS (Hydrocarbons, C6, isoalkanes)

IATA: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1



14.4. Packing group

ADR / RID, IMDG,

IATA:

14.5. Environmental hazards

ADR / RID: Environmentally

Hazardous

IMDG: Marine Pollutant

IATA: NC

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.





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17.0. Opeciai precautions for user	14	ŀ.6.	S	pecial	precautions	for	user
------------------------------------	----	------	---	--------	-------------	-----	------

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

Special provision: -

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

IATA: Cargo: Maximum quantity: 150

instructions: 203

Pass.:

Kg Maximum quantity: 75

Packaging instructions: 203

Packaging

Special provision:

A145, A167,

A802

Kg

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-E2

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

Product

40 Point

Contained substance

Point 75

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

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:



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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

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

SECTION 16. Other information

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

Flam. Gas 1A Flammable gas, category 1A

Aerosol 1 Aerosol, category 1
Aerosol, category 3

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

Water-react. 2 Substance or mixture which in contact with water emits flammable gas, category 2

Press. Gas Pressurised gas
Press. Gas (Liq.) Liquefied gas

Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic 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

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

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H225 Highly flammable liquid and vapour.



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H226 Flammable liquid and vapour.

H228 Flammable solid.

H261 In contact with water releases flammable gases. 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.

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.

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.

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

I EGEND.

ADR: European Agreement concerning the carriage of Dangerous goods by Road

ATE: Acute Toxicity Estimate

- 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- · WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EU) 790/2009 (I Atp. CLP) 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



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- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

02 / 11.