Z350/ISA - SPRAYS - CINC CLARO 400 ml ISAVAL

Revision nr. 4

Dated 10/10/2020

Printed on 23/11/2020

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Replaced revision:3 (Dated: 22/02/2019)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: Z350/ISA

Product name SPRAYS - CINC CLARO 400 ml ISAVAL

UFI: **N740-R0F8-Y00K-2S7P**

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

Intended use 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

Name AMBRO-SOL S.R.L.

Full address Via per Pavone del Mella n.21

District and Country 25020 Cigole (BS)

Italia

Tel. +39 030 9959674 Fax +39 030 959265

e-mail address of the competent person

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

1.4. Emergency telephone number

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

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

Bergamo)

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

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

de Toxicología y Ciencias Forenses - España)

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

Emergência Médica - Portugal)

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

Toxicovigilance de Paris - France)

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

Polska)

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

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

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity,	H411	Toxic to aquatic life with long lasting effects.
category 2		
	Aspiration hazard, category 1 Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment, chronic toxicity,	Aspiration hazard, category 1 Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment, chronic toxicity, H411

2.2. Label elements

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

Hazard pictograms:







Signal words: Danger

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

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.

P211 Do not spray on an open flame or other ignition source.
P273 Avoid release to the environment.

P391 Collect spillage.

P102 Keep out of reach of children.

Contains: Hydrocarbons, C6, isoalkanes

Isobutyl acetate

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

Statements on the aspiration toxicity classification were not included in the label elements, based on

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section 1.3.3. of Annex I to CLP.

VOC (Directive 2004/42/EC) :

Special finishes.

VOC given in g/litre of product in a ready-to-use condition: 550,00 Limit value: 840.00

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

Xylene (mixture of isomers)

CAS 1330-20-7 23 ≤ x < 27 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

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

Regulation: C

EC 215-535-7

INDEX 601-022-00-9

Reg. no. 01-2119488216-32-XXXX

Propane

CAS 74-98-6 19 ≤ x < 23 Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to

Annex VI to the CLP Regulation: U

EC 200-827-9

INDEX 601-003-00-5

Reg. no. 01-2119486944-21-0046

Hydrocarbons, C6, isoalkanes

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

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

Regulation: P

EC 265-151-9

INDEX 649-328-00-1

Reg. no. 012119484651-34-XXXX

Petroleum Resins

CAS 64742-16-1 $15 \le x < 19$ Aquatic Chronic 4 H413

EC 265-116-8 INDEX -

Butane

CAS 106-97-8 9 ≤ x < 11 Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to

Annex VI to the CLP Regulation: C U

EC 203-448-7

INDEX 601-004-00-0

Reg. no. 01-2119474691-32-XXXX

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Aluminium Powder (stabilised)

CAS 7429-90-5 $1 \le x < 3$ F

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

Reg. no. 01-2119529243-45-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

Reg. no. 01-2119488971-22-XXXX

Isobutane

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

EC 200-857-2

INDEX 601-004-00-0

Reg. no. 01-2119485395-27-XXXX

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

aromatics

CAS - $1 \le x < 3$ Asp. Tox. 1 H304, EUH066

EC 918-481-9

INDEX -

Reg. no. 01-2119457273-39-XXXX

Zinc Powder (stabilised)

CAS 7440-66-6 0,5 ≤ x < 1 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

Reg. no. 01-2119467174-37-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: 31,00 %

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 20Â ° C to 190Â ° C (-4Â ° F to 374Â ° F).

SECTION 4. First aid measures

4.1. Description of first aid measures

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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).

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

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Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU ESP FRA	Deutschland España France	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST) Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008. n.81
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
	Ü	trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398;
		Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
		2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

GIH 2020

	/alue						
Туре	Country	TWA/8h		STEL/15min		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	
VLEP	ITA	221	50	442	100	SKIN	

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/LE	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	Orany		
Predicted no-effect concentra	ation - PNFC	404	100		130			
Normal value in fresh water				327	μg,	/1		
Normal value in marine water	<u></u> r			327	μд			
Normal value for fresh water	sediment			12,46		/kg/d		
Normal value for marine wate	er sediment			12,46		ı/kg/d		
Normal value of STP microor	ganisms			6,58	mg			
Normal value for the terrestria	al compartment			2,31	mg	ı/kg/d		
Health - Derived no-effe	ect level - DNEL / Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,6 mg/kg bw/d		-,		2,2.20
Inhalation				14,8 mg/m3			289 mg/m3	77 mg/m3
Skin				108 mg/kg bw/d				180 mg/kg bw/d
Propane Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	1800	1000	7200	4000			
MAK	DEU	1800	1000	7200	4000			
VLA	ESP		1000					
NDS/NDSCh	POL	1800						
Health - Derived no-effe	ect level - DNEL / DEffects on consumers				Effects on workers			
Health - Derived no-effe Route of exposure	ect level - DNEL / D Effects on	Acute systemic	Chronic local	Chronic systemic		Acute systemic	Chronic local	Chronic systemic
Health - Derived no-effe Route of exposure	ect level - DNEL / DEffects on consumers		Chronic local	systemic 1301 mg/kg	workers		Chronic local	
Health - Derived no-effe Route of exposure Oral	ect level - DNEL / DEffects on consumers		Chronic local	systemic	workers		Chronic local	
Hydrocarbons, C6, isoal Health - Derived no-effe Route of exposure Oral Inhalation Skin	ect level - DNEL / DEffects on consumers		Chronic local	systemic 1301 mg/kg bw/d	workers		Chronic local	systemic
Health - Derived no-effe Route of exposure Oral Inhalation Skin Butane Threshold Limit Value	ect level - DNEL / Effects on consumers Acute local	Acute systemic	Chronic local	systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg bw/d	workers	systemic		5306 mg/m3
Health - Derived no-effe Route of exposure Oral Inhalation Skin Butane Threshold Limit Value	ect level - DNEL / DEffects on consumers		Chronic local	systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg	workers		/	5306 mg/m3
Health - Derived no-effe Route of exposure Oral Inhalation Skin Butane Threshold Limit Value	ect level - DNEL / Effects on consumers Acute local	Acute systemic	Chronic local	systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg bw/d	workers	systemic	/	5306 mg/m3
Health - Derived no-effe Route of exposure Oral Inhalation	ect level - DNEL / Effects on consumers Acute local	Acute systemic		systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg bw/d STEL/15min	workers Acute local	systemic	/	5306 mg/m3
Health - Derived no-effe Route of exposure Oral Inhalation Skin Butane Threshold Limit Value Type	Ect level - DNEL / Effects on consumers Acute local Country	Acute systemic TWA/8h mg/m3	ppm	systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg bw/d STEL/15min mg/m3	workers Acute local	systemic	/	5306 mg/m3
Health - Derived no-effe Route of exposure Oral Inhalation Skin Butane Threshold Limit Value Type	Country Ct level - DNEL / C Effects on consumers Acute local Country	TWA/8h mg/m3 2400	ppm 1000	systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg bw/d STEL/15min mg/m3 9600	workers Acute local ppm 4000	systemic	/	5306 mg/m3

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NDS/NDSCh	POL	1900		3000				
WEL	GBR	1450	600	1810	750			
WEL	GBR		4			RESP		
TLV-ACGIH					1000			
Talc								
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				597,97	mg	g/l		
Normal value in marine water				141,26	mg	g/l		
Normal value for fresh water sec	liment			31,33	mg	g/kg/d		
Normal value for marine water s	ediment			3,13	mg	g/kg/d		
Normal value for water, intermitte	ent release			597,97	mg	g/l		
Normal value for the atmosphere	9			10	mg	g/m3		
Health - Derived no-effect	level - DNEL / [Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral		160 mg/kg bw/d		systemic 160 mg/kg bw/d		systemic		systemic
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/m
Skin			2,27 mg/cm2	2,16 mg/kg bw/d			4,54 mg/cm2	43,2 mg/kg bw/d
Aluminium Powder (stabili Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	10						
VLEP	FRA	5						
NDS/NDSCh	POL	2,5				INHAL		
NDS/NDSCh	POL	1,2				RESP		
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		1	0,9					
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				VND				
Normal value in marine water				VND				
Normal value for fresh water sec	diment			VND				
Normal value for marine water se	ediment			VND				
Normal value for water, intermitte	ent release			VND				
Normal value of STP microorgar	nisms			20	mg	g/l		
Normal value for the food chain	(secondary poisor	ing)		VND				
Normal value for the terrestrial c	ompartment			VND				
Normal value for the atmosphere	9			NPI				
Health - Derived no-effect	level - DNEL / I Effects on consumers	DMEL			Effects on workers			

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Oral NPI 3,95 mg/kg bw/d Inhalation NPI 3,72 mg/m3 3,72 mg/m3 Isobutyl acetate **Threshold Limit Value** Country TWA/8h STEL/15min Remarks / Type Observations mg/m3 ppm mg/m3 ppm 124 (C) AGW DEU 300 62 600 (C) VLA **ESP** 724 150 VLEP FRA 710 150 200 940 NDS/NDSCh POL 240 720 WEL GBR 724 150 903 187 OEL 241 50 723 150 TLV-ACGIH 50 150 Predicted no-effect concentration - PNEC Normal value in fresh water 170 μg/l Normal value in marine water 17 μg/l Normal value for fresh water sediment 877 μg/kg/d Normal value for marine water sediment 87,7 μg/kg/d Normal value of STP microorganisms 200 mg/l Normal value for the terrestrial compartment 75.5 μg/kg/d 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 5 mg/kg bw/d 5 mg/kg bw/d Inhalation 300 mg/m3 600 mg/m3 300 mg/m3 300 mg/m3 35,7 mg/m3 35,7 mg/m3 600 mg/m3 Skin NPI NPI 10 mg/kg NPI 5 mg/kg bw/d 5 mg/kg bw/d NPI 10 mg/kg bw/d bw/d Isobutane **Threshold Limit Value** Type 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 NPI Normal value for the atmosphere

Zinc Powder (stabilised) Threshold Limit Value						
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

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VLA	ESP		0,05			RESP		
		mg/m3	ppm	mg/m3	ppm	Observat	ions	
Type	Country	TWA/8h		STEL/15min		Remarks		
Quartz Threshold Limit Value								
וואוכ	IVI I	INI I	INI I	bw/d	INII	INII	INI	bw/d
Inhalation Skin	NPI NPI	NPI NPI	NPI NPI	2,5 mg/m3 83 mg/kg	NPI NPI	NPI NPI	500 μg/m3 NPI	5 mg/m3 83 mg/kg
Oral	NPI	NPI	NPI	830 μg/kg bw/d	NDI	ND'	F00 / -	
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
	Effects on consumers	/WEL			Effects on workers			
Health - Derived no-effec		MEI		,				
Normal value for the atmosph	•			NPI		,g, u		
Normal value for the terrestria				35,6		ı/kg/d		
Normal value of STP microorg				100	μд			
Normal value for marine wate				56,5		ı/kg/d		
Normal value for fresh water s				117,8		ı/kg/d		
Normal value in marine water				6,1	μд			
Normal value in fresh water				20,6	μд	/I		
Predicted no-effect concentra	tion - PNEC							
TLV-ACGIH		2		10				
NDS/NDSCh	POL	5		10		INHAL		
VLEP	FRA	5						
VLA	ESP	2		10				
MAK	DEU	0,1		0,4		RESP		
MAK	DEU	2		4		INHAL		
		mg/m3	ppm	mg/m3	ppm	Observat	10115	
Туре	Country	TWA/8h		STEL/15min		Remarks		
Zinc oxide Threshold Limit Value								
								511/4
Skin	NPI	NPI	NPI	83 mg/kg/d	NPI	NPI	NPI	83 mg/kg bw/d
Inhalation	NPI	NPI	NPI	bw/d 2,5 mg/m3	NPI	NPI	NPI	5 mg/m3
Oral		NPI		830 μg/kg		2,2.20		2,2.00
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Health - Derived no-effe	Effects on consumers	JWIEL			Effects on workers			
Normal value for the terrestria	<u> </u>			35,6	mç	ı/kg/d		
Normal value of STP microorg				100	μд			
Normal value for marine wate				56,5		ı/kg/d		
Normal value for fresh water s				117,8		ı/kg/d		
Normal value in marine water				6,1	μд			
NI I I				0.4		//		

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VLEP	FRA	0,1	RESP
VLEP	ITA	0,1	RESP
NDS/NDSCh	POL	0,1	RESP
OEL	EU	0,1	RESP
TLV-ACGIH		0,025	

Legend:

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

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

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

None required.

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

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 aeroso

Colour aluminum / light gray
Odour characteristic of solvent

Odour threshold Not available pH Not available

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 $\begin{array}{ll} \mbox{Melting point / freezing point} & \mbox{Not available} \\ \mbox{Initial boiling point} & \mbox{Not available} \\ \mbox{Boiling range} & \mbox{Not available} \\ \mbox{Flash point} & \mbox{< 0 °C} \\ \end{array}$

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

Relative density 0,70 ÷ 0,74 g/ml a 20°C Solubility insoluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available Viscosity Not available Explosive properties not applicable Oxidising properties not applicable

9.2. Other information

VOC (Directive 2004/42/EC): 76,50 % - 550,00 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Isobutyl acetate

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.

Aluminium Powder (stabilised)

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Develops hydrogen on contact with: water.

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

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.

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.

10.4. Conditions to avoid

Avoid overheating.

Isobutyl acetate

Avoid exposure to: sources of heat,naked flames.

Zinc Powder (stabilised)

Avoid exposure to: heat, moisture.

10.5. Incompatible materials

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

Isobutyl acetate

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

Zinc Powder (stabilised)

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

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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

ATE (Inhalation) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

>2000 mg/kg

Petroleum Resins

LD50 (Oral) 2000 mg/kg

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

LD50 (Oral) > 5000 mg/kg bw rat

LD50 (Dermal) 2000 mg/kg bw rat

LC50 (Inhalation) > 4 mg/l/4h rat

Aluminium Powder (stabilised)

LD50 (Oral) > 15000 mg/kg bw rat

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LC50 (Inhalation) 888 mg/m3/4h rat	
Zinc Powder (stabilised)	
LD50 (Oral) > 2000 mg/kg bw rat	
Xylene (mixture of isomers)	
LD50 (Oral) > 3000 mg/kg rat	
LD50 (Dermal) > 1700 mg/kg rabbit	
LC50 (Inhalation) 5000 ppm/4h rat	
Butane	
LC50 (Inhalation) > 1442,738 mg/l/15min rat	
Propane	
LC50 (Inhalation) 800000 ppm 15 min	
Isobutyl acetate LD50 (Oral) 13413 mg/kg bw rat	
LD50 (Oran) 13413 mg/kg bw rat	
LC50 (Inhalation) 30 mg/l/6h rat	
Lood (IIIIalation) oo mg//on rat	
Hydrocarbons, C6, isoalkanes	
LD50 (Oral) > 2000 mg/kg bw rat	
LD50 (Dermal) > 2000 mg/kg bw rabbit	
LC50 (Inhalation) > 25 mg/l/4h air (rat)	
Isobutane	
LC50 (Inhalation) > 1442,738 mg/l/15min rat	
LOGO (IIIII alatioti) > 1442,730 Hig/// ISHIII Tat	
SKIN CORROSION / IRRITATION	

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Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Xylene (mixture of isomers)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

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**

Petroleum Resins

EC50 - for Crustacea

100 mg/l/48h

EC50 - for Algae / Aquatic Plants

100 mg/l/72h

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

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Chronic NOEC for Algae / Aquatic Plants 1000 mg/l 72 hours

Aluminium Powder (stabilised)

LC50 - for Fish $> 78 \mu g/l/96h$ EC50 - for Crustacea 1,5 mg/l/48h EC50 - for Algae / Aquatic Plants 16,9 $\mu g/l$ Chronic NOEC for Fish 25,1 $\mu g/l$ 4 days Chronic NOEC for Crustacea 5 $\mu g/l$ 48 h Chronic NOEC for Algae / Aquatic Plants 45,7 mg/l 4 days

Zinc Powder (stabilised)

LC50 - for Fish $112 \ \mu g/l/96h$ EC50 - for Crustacea $155 \ \mu g/l/48h$ Chronic NOEC for Fish $720 \ \mu g/l \ 84 \ days$ Chronic NOEC for Crustacea $300 \ \mu g/l \ 3 \ months$ Chronic NOEC for Algae / Aquatic Plants $20 \ \mu g/l \ 4 \ days$

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

 $LC50 - for Fish & 8,41 mg/l/96h \\ EC50 - for Crustacea & 4,7 mg/l/48h \\ EC50 - for Algae / Aquatic Plants & > 12 mg/l/72h \\ Chronic NOEC for Algae / Aquatic Plants & 6,47 mg/l \\$

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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.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Rapidly degradable But failing the 10-day window (100%).

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

Isobutane

Rapidly degradable

12.3. Bioaccumulative potential

Xylene (mixture of isomers)

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

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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

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

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

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

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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:

NO



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

14.6. Special precautions for user

ADR / RID: HIN - Kemler: -- Limited

Quantities: 1

Tunnel restriction code: (D)

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

Quantities: 1

Cargo:

Pass.:

Special Provision: -

Special Instructions:

Maximum quantity: 150

Кg Maximum

quantity: 75

Kg

A145, A167,

A802

Packaging instructions: 203 Packaging instructions: 203

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P3a-E2

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)

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

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Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

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

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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.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.

LEGEND:

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

CAS NUMBER: Chemical Abstract Service Number

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- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
 Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (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) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- 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.

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Changes to provious reviews	
Changes to previous review: The following sections were modified: 01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.	
01/02/03/08/09/10/11/12/15/16.	