

**AKCALI BOYA VE KİMYA SANAYİ TİCARET A.Ş.**

Revision No: 4
Revision Date: 01/02/2023
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084_K - AKCALI SPRAY SYNTHETIC ZINC PAINT

Safety Data Sheet

Complies with Annex II of REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Product name **AKCALI SPRAY SYNTHETIC ZINC PAINT**
UFI : **89X0-H0VR-900X-7F2C**

CODE: **6723.084.S702**

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

Intended use **Spray painting product.**

Identified Uses	Industrial	Professional	Consumer
Spray paint based on acrylic resins in the solvent phase	-	✓	✓
Uses Advised Against			
Uses other than those recommended			

1.3. Information on the supplier of the safety data sheet

Company Name AKÇALI BOYA VE KİMYA SAN. TİC. A.Ş.
Address OSMANGAZİ MAH. MAREŞAL FEVZİ ÇAKMAK CAD. NO: 5
Location and Country ESENYURT / İSTANBUL
TURKEY
Tel: +90-212-8862343
Fax: +90-212-8861811

E-mail address of the authorized person:
Responsible for the safety data sheet zekir.senol@akcaliboya.com.tr

Placing on the market responsible entity AKÇALI BOYA VE KİMYA SAN. TİC. A.Ş.

1.4. Emergency telephone number

For emergency information, consult:

Turkey: +90 212 886 23 43 (08:00 – 17:00 / Monday - Friday)
National Toxic Consultation Center (Turkey): 114 (UZEM)

Telephone numbers of the main poison control centers in Germany (available 24/7):

Poison Control Center of Charité Universitätsmedizin - Berlin; Tel. 030 - 192 40
Information Center Against Poisoning - Bonn; Tel. 0228 - 192 40 - Tel. 0228 - 287 334 80
Poison Control Center - Erfurt; Tel. 0361 - 730 730
Poison Information Center - Freiburg; Tel. 0761 - 192 40
Poison Information Center North for the Länder of Bremen, Hamburg, Lower Saxony and Schleswig-Holstein (GIZNord); Tel. 0551 - 192 40
Poison Information Center for the Länder of Rhineland-Palatinate and Hesse - Mainz; Tel. 06131 - 192 40 - Tel. 06131 - 232 466
Poison Control Center Munich - Munich - Tel. 089 - 192 40

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

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supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. 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. Pressurized 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, category 2	H411	Toxic to aquatic life with long lasting effects.

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	Pressurized 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 not expose to temperatures above 50°C / 122°F.
P501	Dispose of the product / 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.
P271	Use only outdoors or in a well-ventilated area.

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<p>Contains: ACETONE</p> <p><u>VOC (Directive 2004/42/EC) :</u></p> <p>Special finishes - All types.</p> <p>VOC given in g/litre of product in a ready-to-use condition : 0,00</p> <p>Limit value: 840,00</p> <p>2.3. Other hazards</p> <p>On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.</p> <p>The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.</p>		
SECTION 3. Composition/information on ingredients		
3.1. Substances		
Information not relevant		
3.2. Mixtures		
Contains:		
Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ACETONE		
CAS 67-64-1	$24 \leq x < 39$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 200-662-2		
INDEX 606-001-00-8		
REACH Reg. 01-2119471330-XX		
PROPANE		
CAS 74-98-6	$9 \leq x < 24$	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		
XYLENE, MIXTURE OF ISOMERS		
CAS 1330-20-7	$10 \leq x < 25$	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C
EC 215-535-7		ATE Dermal: 1100 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l
INDEX 601-022-00-9		
REACH Reg. 01-2119488216-32		
BUTANE		
CAS 106-97-8	$7 \leq x < 9$	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		
ISOBUTANE		

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CAS 75-28-5	5 ≤ x < 7	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U	
EC 200-857-2			
INDEX 601-004-00-0			
DIMETHYL CARBONATE			
CAS 616-38-6	3 ≤ x < 4	Flam. Liq. 2 H225	
EC 210-478-4			
INDEX 607-013-00-6			
REACH Reg. 01-2119548399-23-XXXX			
ZINC POWDER (STABILIZED)			
CAS 7440-66-6	3 ≤ x < 4	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1	
EC 231-175-3			
INDEX 030-001-00-1			
REACH Reg. 01-2119467174-37			
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: 32,00 %			
SECTION 4. First aid measures			
4.1. Description of first aid measures			
EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.			
SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.			
INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.			
INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.			
4.2. Most important symptoms and effects, both acute and delayed			
Specific information on symptoms and effects caused by the product are unknown.			
4.3. Indication of any immediate medical attention and special treatment needed			
Information not available			
SECTION 5. Firefighting measures			
5.1. Extinguishing media			
SUITABLE EXTINGUISHING EQUIPMENT			
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.			
UNSUITABLE EXTINGUISHING EQUIPMENT			
None in particular.			

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<p>5.2. Special hazards arising from the substance or mixture</p> <p>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.</p> <p>5.3. Advice for firefighters</p> <p>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).</p> <p>SECTION 6. Accidental release measures</p> <p>6.1. Personal precautions, protective equipment and emergency procedures</p> <p>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.</p> <p>6.2. Environmental precautions</p> <p>Do not disperse in the environment.</p> <p>6.3. Methods and material for containment and cleaning up</p> <p>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.</p> <p>6.4. Reference to other sections</p> <p>Any information on personal protection and disposal is given in sections 8 and 13.</p> <p>SECTION 7. Handling and storage</p> <p>7.1. Precautions for safe handling</p> <p>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.</p> <p>7.2. Conditions for safe storage, including any incompatibilities</p> <p>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.</p> <p>7.3. Specific end use(s)</p> <p>Information not available</p> <p>SECTION 8. Exposure controls/personal protection</p>	

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8.1. Control parameters					
Regulatory references:					
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56			
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]			
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS			
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81			
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			
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006			
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 — ZVZD-1, 38/15, 78/18 in 78/19)			
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733			
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)			
EU	OEL EU	Directive (EU) 2022/431; 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 2022			
ACETONE					
Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	1200	500	2400 (C)	1000 (C)
MAK	DEU	1200	500	2400	1000
TLV	EST	1210	500		
VLEP	FRA	1210	500	2420	1000
VLEP	ITA	1210	500		
NDS/NDSch	POL	600		1800	
TLV	ROU	1210	500		
MV	SVN	1210	500	2420	1000
ESD	TUR	1210	500		
WEL	GBR	1210	500	3620	1500
OEL	EU	1210	500		
TLV-ACGIH			250		500
Predicted no-effect concentration - PNEC					
Normal value in fresh water				10,6	mg/l
Normal value in marine water				1,06	mg/l
Normal value for fresh water sediment				30,4	mg/kg
Normal value for marine water sediment				3,04	mg/kg
Normal value for water, intermittent release				21	mg/l
Normal value of STP microorganisms				100	mg/l
Normal value for the terrestrial compartment				33,3	mg/kg
Health - Derived no-effect level - DNEL / DMEL					
Effects on consumers				Effects on workers	

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Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	62 mg/kg				
Inhalation			VND	200 mg/m3	VND	2420 mg/m3	VND	1210 mg/m3
Skin			VND	62 mg/kg			VND	186 mg/kg
PROPANE								
Threshold Limit Value								
Type	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			
TLV	EST	1800	1000					
NDS/NDSch	POL	1800						
TLV	ROU	1400	778	1800	1000			
MV	SVN	1800	1000	7200	4000			
XYLENE, MIXTURE OF ISOMERS								
Threshold Limit Value								
Type	Country	TWA/8h	STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		434	0	0	0			
BUTANE								
Threshold Limit Value								
Type	Country	TWA/8h	STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	2400	1000	9600	4000			
MAK	DEU	2400	1000	9600	4000			
TLV	EST	4	peentolm					
VLEP	FRA	1900	800					
NDS/NDSch	POL	1900	3000					
MV	SVN	2400	1000	9600	4000			
WEL	GBR	1450	600	1810	750			
WEL	GBR	4		RESP				
TLV-ACGIH					1000			
ZINC POWDER (STABILIZED)								
Threshold Limit Value								
Type	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 concentration - PNEC								
Normal value in fresh water				0,0206	mg/l			
Normal value in marine water				0,0061	mg/l			

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9.1. Information on basic physical and chemical properties		
Properties	Value	Information
Appearance	aerosol	
Colour	according to the range	
Odour	characteristic of solvent	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	flammable gas	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	< 0 °C	
Auto-ignition temperature	not available	
pH	not available	Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Kinematic viscosity	not available	
Solubility	immiscible with water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,75 - 0,80	
Relative vapour density	not available	
Particle characteristics	not applicable	
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)	9,75 %	
VOC (Directive 2010/75/EU)	0	
VOC (volatile carbon)	0,18 % - 1,32	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.		
ACETONE		
Decomposes under the effect of heat.		
10.2. Chemical stability		

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<p>The product is stable in normal conditions of use and storage.</p> <p>10.3. Possibility of hazardous reactions</p> <p>No hazardous reactions are foreseeable in normal conditions of use and storage.</p> <p>ACETONE</p> <p>Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents.Develops flammable gas on contact with: nitrosyl perchlorate.</p> <p>ZINC POWDER (STABILIZED)</p> <p>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.</p> <p>10.4. Conditions to avoid</p> <p>Avoid overheating.</p> <p>ACETONE</p> <p>Avoid exposure to: sources of heat,naked flames.</p> <p>10.5. Incompatible materials</p> <p>Strong reducing or oxidising agents, strong acids or alkalis, hot material.</p> <p>ACETONE</p> <p>Incompatible with: acids,oxidising substances.</p> <p>ZINC POWDER (STABILIZED)</p> <p>Incompatible with: water,acids,strong alkalis.</p> <p>10.6. Hazardous decomposition products</p> <p>ACETONE</p> <p>May develop: ketenes,irritant substances.</p>	
SECTION 11. Toxicological information	
<p>11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008</p> <p><u>Metabolism, toxicokinetics, mechanism of action and other information</u></p>	
Information not available	

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<p><u>Information on likely routes of exposure</u></p> <p>Information not available</p> <p><u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u></p> <p>Information not available</p> <p><u>Interactive effects</u></p> <p>Information not available</p> <p><u>ACUTE TOXICITY</u></p> <table border="0"> <tr> <td>ATE (Inhalation - mists / powders) of the mixture:</td><td>4,1 mg/l</td></tr> <tr> <td>ATE (Oral) of the mixture:</td><td>Not classified (no significant component)</td></tr> <tr> <td>ATE (Dermal) of the mixture:</td><td>>2000 mg/kg</td></tr> </table> <p><u>ACETONE</u></p> <table border="0"> <tr> <td>LD50 (Dermal):</td><td>> 15800 mg/kg Coniglio</td></tr> <tr> <td>LD50 (Oral):</td><td>5800 mg/kg Ratto</td></tr> <tr> <td>LC50 (Inhalation vapours):</td><td>76 mg/l/4h Ratto</td></tr> </table> <p><u>XYLENE, MIXTURE OF ISOMERS</u></p> <table border="0"> <tr> <td>ATE (Dermal):</td><td>1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)</td></tr> <tr> <td>LD50 (Oral):</td><td>5000 mg/kg</td></tr> </table> <p><u>DIMETHYL CARBONATE</u></p> <table border="0"> <tr> <td>LD50 (Dermal):</td><td>> 5000 mg/kg Coniglio</td></tr> <tr> <td>LD50 (Oral):</td><td>13000 mg/kg Ratto</td></tr> </table> <p><u>SKIN CORROSION / IRRITATION</u></p> <p>Causes skin irritation</p> <p><u>SERIOUS EYE DAMAGE / IRRITATION</u></p> <p>Causes serious eye irritation</p> <p><u>RESPIRATORY OR SKIN SENSITISATION</u></p> <p>Does not meet the classification criteria for this hazard class</p> <p><u>Respiratory sensitization</u></p> <p>Information not available</p> <p><u>Skin sensitization</u></p> <p>Information not available</p> <p><u>GERM CELL MUTAGENICITY</u></p> <p>Does not meet the classification criteria for this hazard class</p>		ATE (Inhalation - mists / powders) of the mixture:	4,1 mg/l	ATE (Oral) of the mixture:	Not classified (no significant component)	ATE (Dermal) of the mixture:	>2000 mg/kg	LD50 (Dermal):	> 15800 mg/kg Coniglio	LD50 (Oral):	5800 mg/kg Ratto	LC50 (Inhalation vapours):	76 mg/l/4h Ratto	ATE (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)	LD50 (Oral):	5000 mg/kg	LD50 (Dermal):	> 5000 mg/kg Coniglio	LD50 (Oral):	13000 mg/kg Ratto
ATE (Inhalation - mists / powders) of the mixture:	4,1 mg/l																				
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<p><u>CARCINOGENICITY</u></p> <p>Does not meet the classification criteria for this hazard class</p> <p><u>REPRODUCTIVE TOXICITY</u></p> <p>Does not meet the classification criteria for this hazard class</p> <p><u>Adverse effects on sexual function and fertility</u></p> <p>Information not available</p> <p><u>Adverse effects on development of the offspring</u></p> <p>Information not available</p> <p><u>Effects on or via lactation</u></p> <p>Information not available</p> <p><u>STOT - SINGLE EXPOSURE</u></p> <p>May cause drowsiness or dizziness</p> <p><u>Target organs</u></p> <p>Information not available</p> <p><u>Route of exposure</u></p> <p>Information not available</p> <p><u>STOT - REPEATED EXPOSURE</u></p> <p>Does not meet the classification criteria for this hazard class</p> <p><u>Target organs</u></p> <p>Information not available</p> <p><u>Route of exposure</u></p> <p>Information not available</p> <p><u>ASPIRATION HAZARD</u></p> <p>Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth</p> <p>11.2. Information on other hazards</p> <p>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.</p>	

SECTION 12. Ecological information

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

12.1. Toxicity

ZINC POWDER (STABILIZED)

LC50 - for Fish	7,1 mg/l/96h <i>Nothobranchius guentheri</i>
EC50 - for Crustacea	2,8 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,015 mg/l/72h <i>Pseudokirchneriella subcapitata</i>

12.2. Persistence and degradability

ZINC POWDER (STABILIZED)

Solubility in water 0,1 - 100 mg/l

Degradability: information not available

BUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

PROPANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

ACETONE

Rapidly degradable

12.3. Bioaccumulative potential

BUTANE

Partition coefficient: n-octanol/water 1,09

PROPANE

Partition coefficient: n-octanol/water 1,09

ACETONE

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

BCF 3

12.4. Mobility in soil

Information not available

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 \geq than 0,1%.

12.6. Endocrine disrupting properties

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.

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1950

14.2. UN proper shipping name

ADR / RID: AEROSOLS
IMDG: AEROSOLS (ZINCO IN POLVERE (STABILIZZATA))
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



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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 L	Tunnel restriction code: (D)
IMDG:	Special provision: - EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Passengers:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special provision:	A145, A167, A802	

14.7. Maritime transport in bulk according to IMO instruments

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/EU: P3a-E2

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

<u>Product</u>	
Point	40

<u>Contained substance</u>	
Point	75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor
The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.
All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

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None	
<u>Substances subject to the Rotterdam Convention:</u>	
None	
<u>Substances subject to the Stockholm Convention:</u>	
None	
<u>Healthcare controls</u>	
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.	
<u>VOC (Directive 2004/42/EC) :</u>	
Special finishes - All types.	
15.2. Chemical safety assessment	
A chemical safety assessment has been performed for the following contained substances	
ACETONE	
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 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Press. Gas (Liq.)	Liquefied gas
Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H312	Harmful in contact with skin.

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H332	Harmful if inhaled.
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.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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 (EC) 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
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)

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<p>21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP) 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP) 23. Delegated Regulation (UE) 2023/707 - 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</p> <p>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.</p> <p>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.</p> <p>Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.</p>	