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

- · 1.1 Product identifier
- · Trade name: Aerosol SOLL Zinc-Alu Spray
- · (Article number) product ID.: S700031
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use SU21 Consumer uses: Private households / general public / consumers
- · Application of the substance / the mixture: painting
- · Uses advised against No further relevant information available.
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

UAB "HELVINA"

Parko str. 96

LT-54464 Ramu iai

Kaunas distr., Lithuania

Tel: +370 37 308 901 Fax: +370 37 308 902 info@helvina.lt www.helvina.lt

- · Further information obtainable from: Product safety department
- 1.4 Emergency telephone number: Tel: +370 5 236 2052 / +370 687 53378
- · national:

National Poisons Information Service, Birmingham

Tel.: 844 892 0111

· K-Nr. 0015

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



flame

Aerosol 1 H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

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Trade name: Aerosol SOLL Zinc-Alu Spray

(Contd. of page 1)

· Hazard pictograms







GHS07

· Signal word Danger

· Hazard-determining components of labelling:

ethyl acetate

acetone

· Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

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

smoking.

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

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P410+P412

P501 Dispose of contents/container in accordance with local/regional/national/international

· Additional information:

Without adequate ventilation, explosive atmosphere/gas mix may be created.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 141-78-6	ethyl acetate	25-<50%
EINECS: 205-500-4	🏵 Flam. Liq. 2, H225; 🕚 Eye Irrit. 2, H319; STOT SE 3,	
Reg.nr.: 01-2119475103-46-xxxx	H336, EUHÔ66	
CAS: 74-98-6	propane	10-<25%
	🚸 Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	
Reg.nr.: 01-2119486944-21-xxxx		
	(Cor	atd on page 3

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CAS: 106-97-8	butane (containing ≤ 0.1 % butadiene (203-450-8))	10-<2
EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	🍅 Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane (containing ≤ 0,1 % butadiene (203-450-8)) � Flam. Gas 1A, H220; Press. Gas (Comp.), H280, EUH018	5-<10
CAS: 7440-66-6 EINECS: 231-175-3	zinc powder -zinc dust (pyrophoric) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	5-<10
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone	5-<10
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene, mixture of isomers Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-<5
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35-xxxx	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	1-<2.5
CAS: 7727-43-7 EINECS: 231-784-4 Reg.nr.: 01-2119491274-35-xxxx	barium sulphate, natural substance with a Community workplace exposure limit	1-<2.5
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	<1%

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media -
- · Suitable extinguishing agents: Cool container whit water
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

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· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

Sk

· Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- $\cdot \textit{Further information about storage conditions: } \textit{None.}$
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

	edients with limit values that require monitoring at the workplace: 78-6 ethyl acetate	
	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm	
106-	97-8 butane (containing ≤0,1 % butadiene (203-450-8))	
WEL	Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)	
67-6	4-1 acetone	
WEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm	
1330	-20-7 xylene, mixture of isomers	
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV	
100-4	41-4 ethylbenzene	

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7727-43-7 barium sulphate, natural

WEL Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust

108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm

Sk

· Ingredients with biological limit values:

1330-20-7 xylene, mixture of isomers

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:



When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Half mask with combination filter, class A1P2 minimum, or breathing mask with outer air supply.

· Hand protection

Protective gloves



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Penetration time of glove material

Gloves must be changed after every contamination.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

butyl rubber, 0,7mm

· Eye/face protection

Safety glasses



Tightly sealed goggles

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Aerosol

· Colour: According to product specification

Odour: Characteristic
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling

range -44 °C

· Flammability Not applicable.

· Lower and upper explosion limit

• Lower: 1.5 Vol % (106-97-8 butane (containing ≤ 0.1 %

butadiene (203-450-8)))

• *Upper:* 11.5 Vol % (141-78-6 ethyl acetate)

· Flash point: <0 °C

• Ignition temperature: 365 °C (106-97-8 butane (containing \leq 0,1 % butadiene

(203-450-8)))

Decomposition temperature: Not determined.
 pH Not determined.

· Viscosity:

Kinematic viscosity
Dynamic:
Solubility

Not determined.

· water:

Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value) Not determined.

• *Vapour pressure at 20 °C*: 3,600 hPa (74-98-6 propane)

· Density and/or relative density

Relative density
 Vapour density
 0.77 g/ml
 Not determined.

· 9.2 Other information

· Appearance:

· Form: Aerosol

· Important information on protection of health and

environment, and on safety.

· Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

Not determined.

· Solvent content:

· Organic solvents: 86.0 %

With propellant gas. Content given by weight.

· VOC (EU) (<840g/l) 86.00 % · Solids content: 14.0 %

· Change in condition

• Evaporation rate Not applicable.

· Information with regard to physical hazard classes

• Explosives Void • Flammable gases Void

· Aerosols Extremely flammable aerosol. Pressurised container:

May burst if heated.

Oxidising gasesGases under pressureVoid

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		(Contd. of page 6)
· Flammable liquids	Void	
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flammab	le	
gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

ATE (Acute Toxicity Estimates)

Dermal		44,016 mg/kg (rabbit)
Inhalative	LC50/4 h	182 mg/l

- · Serious eye damage/irritation Causes serious eye irritation.
- · STOT-single exposure May cause drowsiness or dizziness.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Ikke relevant.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

· Label

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG · IATA	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOU AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
· Class	2 5F Gases. 2.1
· IMDG	
· Class · Label	2.1 Gases. 2.1
· IATA	
· Class	2.1 Gases.

2.1

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14.4 Packing group	
ADR, IMDG, IATA	Void
	not classified
14.5 Environmental hazards:	
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code):	-
	not classified
EMS Number:	F- D , S - U
Stowage Code	SW1 Protected from sources of heat.
-	SW22 For AEROSOLS with a maximum capacity of
	litre: Category A. For AEROSOLS with a capacity abo
	1 litre: Category B. For WASTE AEROSOLS: Catego
	C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of
2.6.18	litre:
	Segregation as for class 9. Stow "separated from" class
	except for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
ADK Limited quantities (LQ)	H_{c}
Excepted quantities (EQ)	Code: E0
Excepted quantities (EQ)	Not permitted as Excepted Quantity
Transport category	2
Transport category Tunnel restriction code	$\stackrel{\scriptstyle 2}{D}$
	u
IMDG	11
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALI
	HAZARDOUS

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture VOC: <840g/l
- · Directive 2012/18/EU
- $\cdot \textit{Named dangerous substances-ANNEX I} \ \textit{None of the ingredients is listed}.$
- · Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

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- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	50-100

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH018 In use may form flammable/explosive vapour-air mixture.
- EUH066 Repeated exposure may cause skin dryness or cracking.

· Department issuing SDS: Product safety department

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols - Category 1

: Aerosols – Category 3

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

· * Data compared to the previous version altered.