

Weicon GmbH

Revision date: 08.03.2010

Revision no.:

1,00

Zinc Alu Spray

7619-0194

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## **1. Identification of the substance/preparation and of the company/undertaking**

### **Identification of the substance or preparation**

Zinc Alu Spray

### **Further trade names**

11002

### **Use of the substance/preparation**

Technical aerosol.

### **Company/undertaking identification**

#### **Manufacturer**

Weicon GmbH

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D-48157 Münster

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Responsible for the safety data sheet: sds@gbk-ingelheim.de

#### **Supplier**

WEICON Inc.

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Kitchener, Ontario N2E 2C3

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Emergency telephone number: 0 11 49 178 433 74 34 (CONSULTANK Lutz Harder GmbH)

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## **2. Hazards identification**

### **Classification**

Indications of danger : Extremely flammable, Irritant, Dangerous for the environment

R-phrases:

Heating may cause an explosion.

Extremely flammable.

Irritating to eyes.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

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## **3. Composition/information on ingredients**

### **Chemical characterization ( Mixture )**

Mixtures of hydrocarbons with propellant propane/butane

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**Hazardous components**

CAS-No.	Chemical name	Quantity
74-98-6	propane	10 - 25 %
106-97-8	butane	10 - 25 %
67-64-1	acetone; propan-2-one; propanone	10 - 25 %
141-78-6	ethyl acetate	10 - 25 %
7429-90-5	aluminium powder (stabilised)	2.5 - 10 %
1330-20-7	xylene	2.5 - 10 %
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	2.5 - 10 %
7440-66-6	zinc powder - zinc dust (stabilized)	2.5 - 10 %
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	<=2,5 %
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha	<2.5 %

**4. First aid measures****General information**

Remove contaminated soaked clothing immediately.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

**After contact with skin**

Wash off with soap and plenty of water.

Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

**After ingestion**

Do not induce vomiting.

Summon a doctor immediately.

**5. Fire-fighting measures****Suitable extinguishing media**

Foam

Dry powder

Carbon dioxide

**Extinguishing media which must not be used for safety reasons**

Full water jet

**Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases**

Fire may produce:

Carbon monoxide and carbon dioxide.

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Vapours are heavier than air and spread along ground.

**Additional information**

Heating will cause pressure rise with risk of bursting.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**6. Accidental release measures**

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**Personal precautions**

Keep away sources of ignition.

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Ensure adequate ventilation.

Use personal protective clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

**Methods for cleaning up/taking up**

Take up with absorbent material.

After taking up the material dispose according to regulation.

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**7. Handling and storage**

**Handling**

**Advice on safe handling**

Ensure adequate ventilation.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Do not spray on a naked flame or any other incandescent material.

Heating will cause pressure rise with risk of bursting.

**Further information on handling**

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

**Storage**

**Requirements for storage rooms and vessels**

Keep containers tightly closed in a cool, well-ventilated place.

Storage temperature may not exceed 50°C (=122°F).

**Advice on storage compatibility**

Incompatible with oxidizing agents.

Do not store with combustible materials.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI):

2 B

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**8. Exposure controls/personal protection**

**Exposure limit values**

**Additional advice on limit values**

Aliphatic hydrocarbon gases (propane/butane/Alkane C1-C4) have workplace limits of 1000 ppm (TWA-ACGIH).

**Protective and hygiene measures**

Ensure adequate ventilation, especially in confined areas.

Wash hands before breaks and immediately after handling the product.

At work do not eat, drink, smoke or take drugs.

Take off immediately all contaminated clothing.

Avoid contact with eyes, skin or mucous membrane.

**Respiratory protection**

Do not inhale gases/vapours/aerosols.

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX).

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**Hand protection**

Protective gloves resistant to chemicals made of nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril 735> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Eye protection**

Safety goggles with side protection

**Skin protection**

Protective overalls

**9. Physical and chemical properties****General information**

Physical state: Aerosol  
 Colour: Silver-grey  
 Odour: Solvent-like

**Important health, safety and environmental information**

Test method

**Changes in the physical state**

Boiling point: -44 °C  
 Flash point: -97 °C DIN 53213

**Explosive properties**

"The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated."

Lower explosion limits: 1,5 vol. %  
 Upper explosion limits: 13 vol. %  
 Vapour pressure: 8300 hPa  
 (at 20 °C)  
 Density (at 20 °C): n.d.  
 Water solubility: Immiscible  
 (at 20 °C)

**Other information**

Ignition temperature: 365 °C

**10. Stability and reactivity****Conditions to avoid**

Fire or intense heat may cause violent rupture of packages.  
 Keep away from heat and sources of ignition.  
 Formation of explosive gas/air mixtures.  
 Hydrogen formation in heat under influence of acids and alkalis.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Carbon monoxide and carbon dioxide.  
 Hydrogen

**Additional information**

No decomposition if stored and applied as directed.

**11. Toxicological information**

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**Acute toxicity**

Description of possible hazards to health effects is based on experience and/or toxicological characteristics of several components.

Harmful by inhalation.

**Corrosive and irritant effects**

Skin irritation: Non-irritant

Eye irritation :Irritant

**Sensitizing effects**

Sensitization skin : Non-sensitizing

**Empirical data on effects on humans**

Harmful by inhalation.

Vapours may cause drowsiness and dizziness.

Repeated exposure may cause skin dryness or cracking.

**12. Ecological information****Further information**

Do not discharge product unmonitored into the environment.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**13. Disposal considerations****Advice on disposal**

Where possible recycling is preferred to disposal.

**Contaminated packaging**

Offer empty spray cans to an established disposal company.

**14. Transport information****Canadian TDG****Proper shipping name**

AEROSOLS

UN/ID number: 1950

Hazard classes: 2.1

Packing group: -

Hazard label: 2.1

**Land transport (ADR/RID)**

UN number: 1950

ADR/RID class: 2

Warning plate

Hazard-no.: -

Hazard label: 2.1



ADR/RID packing group: -

**Description of the goods**

AEROSOLS

**Other applicable information (land transport)**

LQ 2: combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with > 5 kg or 5 L, transition period ends 31.12.2010.

**Marine transport**

UN number: 1950

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IMDG code:	2
Marine pollutant:	No
Hazard label:	2.1



IMDG packing group:	-
EmS:	F-D; S-U

**Description of the goods**

AEROSOLS

**Other applicable information (marine transport)**

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass)

**Air transport**

UN/ID number:	1950
ICAO/IATA-DGR:	2.1
Hazard label:	2.1



ICAO packing group:	-
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

**Description of the goods**

AEROSOLS FLAMMABLE

**15. Regulatory information****Canadian regulations****DSL/NDSL inventory status**

All of the components are listed on the DSL Inventory.

**WHMIS classification**

WHMIS: A, B5, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

**16. Other information****Other data**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*