



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of product	Zinc Alu Spray (GB) Code-Nr. 11002
Manufacturer/distributor	WEICON GmbH & Co. KG Königsberger Straße 255, DE-48157 Münster Postbox 84 60, DE-48045 Münster Phone ++49(0)251 / 9322 - 0, Fax ++49(0)251 / 9322-244 E-Mail : info@weicon.de Internet : www.weicon.de
Advice	Abteilung Angebote, Verkauf, Export Phone ++49(0)251 / 9322 - 0
Emergency advice	Giftnotruf Bonn: Bei Vergiftungen (in case of poisoning) Phone ++49(0)228-19 240
Recommended intended purpose(s)	Technical Aerosols

2. HAZARDS IDENTIFICATION

Classification

F+; R12
Xi; R36
N; R51/53

R-phrases

12 Extremely flammable.
36 Irritating to eyes.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Compound

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification
67-64-1	200-662-2	acetone	10 - 25	F R11; Xi R36; R66; R67
74-98-6	200-827-9	propane	10 - 25	F+ R12
106-97-8	203-448-7	butane	10 - 25	F+ R12
	231-072-3	aluminium powder (stabilised)	2,5 - 10	F R15; R10
141-78-6	205-500-4	ethyl-acetate	10 - 25	F R11; Xi R36; R66; R67
1330-20-7	215-535-7	xylene	2,5 - 10	R10; Xn R20/21; Xi R38
64742-48-9	265-150-3	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	<= 2,5	Xn, R 10-65-66-67
7440-66-6	231-175-3	zinc powder - zinc dust (stabilized)	2,5 - 10	N R50/53
64742-82-1	265-185-4	Naphtha (petroleum), hydrotreated heavy (NOTA P)	< 2,5	Xn R65; R66-67; R10; N R51/53
64742-95-6	265-199-0	Solvent naphtha (petroleum), light arom.	2,5 - 10	R10; Xn R65; Xi R37; N R51/53; R66; R67



4. FIRST AID MEASURES

General information

Remove contaminated soaked clothing immediately.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.
In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.
Refer to medical treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Foam
Dry powder
Carbon dioxide

Extinguishing media which must not be used for safety reasons

water

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

Danger of bursting
Fire gas of organic material has to be classed invariably as respiratory poison.

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.
Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Vapours are heavier than air and will spread on the ground.
Cool endangered containers with water spray jet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.
Use personal protective clothing.
Keep away sources of ignition.

Environmental precautions

Do not discharge into the drains or bodies of water..

Methods for cleaning up

Take up with absorbent material.
After taking up the material dispose according to regulation.

Additional Information

Sort out leaky cans and dispose according to regulations.



7. HANDLING AND STORAGE

Advice on safe handling

Ventilate closed rooms at ground level.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

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

Pressurized container.

Do not pierce or burn even after use.

The product is combustible.

Vapours can form an explosive mixture with air.

Avoid effect of heat.

Requirements for storage rooms and vessels

Keep in closed original container.

Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

Further information on storage conditions

Protect from direct solar radiation.

Keep container in a well-ventilated place

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

Store in a dry place.

Keep in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Spitzenb.	Remark
67-64-1	Acetone	8 hours	1210	500		EH40/2005
		Short-term	3620	1500		
7429-90-5	Aluminium metal: inhalable dust	8 hours	10			EH40/2005
7429-90-5	Aluminium metal: respirable dust	8 hours	4			EH40/2005
106-97-8	Butane	8 hours	1450	600		EH40/2005
		Short-term	1810	750		
141-78-6	Ethyl acetate	8 hours		200		EH40/2005
		Short-term		400		
1330-20-7	Xylene, o-, m-, p- or mixed isomers	8 hours	220	50		EH40/2005
		Short-term	441	100		

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC or 2006/15/EC)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
1330-20-7	xylene, mixed isomers, pure	8 hours	221	50	skin
		Short-term	442	100	
67-64-1	acetone	8 hours	1210	500	

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Short term: filter apparatus, filter A

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0,4mm; 480min;60min.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Eye protection

safety goggles



Skin protection
protective clothing

General protective measures
Avoid contact with eyes and skin
Do not inhale gases/vapours/aerosols.

Hygiene measures
At work do not eat, drink, smoke or take drugs.
Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Colour	Odour
aerosol	silver-grey	solvent-like

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
boiling point	-44 °C				
Flash point	-97 °C			DIN 53213	
Ignition temperature	365 °C				
Lower explosion limit	1,5 Vol-%				
Upper explosion limit	13 Vol-%				
Vapour pressure	8300 hPa	20 °C			
Density	not determined	20 °C			
Solubility in water					immiscible

Explosive properties

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

10. STABILITY AND REACTIVITY

Conditions to avoid

Keep away from heat.
Formation of inflammable vapour-air mixtures.
Hydrogen formation in heat under influence of acids and alkalies.

Materials to avoid

Reactions with acids, alkalies and oxidising agents.

Hazardous decomposition products

carbon monoxide and carbon dioxide
Hydrogen

Thermal decomposition

Remark No decomposition if used as directed.



11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	non-irritant			
Irritability eye	irritant			

Additional information

Labelling in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

12. ECOLOGICAL INFORMATION

General regulation

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste code No.

15 01 10*

Name of waste

packaging containing residues of or contaminated by dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act 8 KrW-/AbfG) stipulates recycling as a requirement.

Recommendations for packaging

Dispose of according to the local waste regulations.

General information

For proper waste disposal a complete emptying of the tin is necessary.

14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID

UN 1950 AEROSOLS, 2.1, (D), Classification code: 5F
transport in "limited quantities" according to 3.4 ADR LQ2 is possible

Marine transport IMDG

UN 1950 AEROSOLS, 2.1
Transport as limited quantities according to 3.4 IMDG Code is possible.

Air transport ICAO/IATA-DGR

UN 1950 Aerosols, flammable, 2.1

15. REGULATORY INFORMATION

Remarks for classification

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.



Classification

- F+** Extremely flammable
Xi Irritant
N Dangerous for the environment

R-phrases

- 12 Extremely flammable.
36 Irritating to eyes.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

S-phrases

- 23.4 Do not breathe spray.
29/56 Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.
36/39 Wear suitable protective clothing and eye/face protection.
51 Use only in well-ventilated areas.

Special labelling for certain preparations

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

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

Without sufficient ventilation the formation of explosive vapour/air mixtures cannot be excluded. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

VOC standard

VOC value 0,147 g/L

16. OTHER INFORMATION

Recommend uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)

- R 10 Flammable.
R 11 Highly flammable.
R 12 Extremely flammable.
R 15 Contact with water liberates extremely flammable gases.
R 20/21 Harmful by inhalation and in contact with skin.
R 36 Irritating to eyes.
R 37 Irritating to respiratory system.
R 38 Irritating to skin.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65 Harmful: may cause lung damage if swallowed.
R 66 Repeated exposure may cause skin dryness or cracking.
R 67 Vapours may cause drowsiness and dizziness.