



## 1. Identification of the product and of the company

**Product name** ZINGASPRAY  
**Code** 4  
**Type of product** Aerosol  
**Supplier** ZINGAMETALL bvba  
**Address** Industriepark  
Rozenstraat 4  
9810 Eke – Belgium  
**Telephone** (32) 9 385.68.81  
**Fax** (32) 9 385.58.69  
**Tel. (emergency)** (32) 70 245.245 (Centre Anti-poison)

## 2. Information on ingredients

### Hazardous components

Zingaspray is based on zinc in powder form (stabilized zinc dust) in a light aromatic solvent filled up with DME (dimethylether) as propellant.

## 3. Hazards identification

**Hazard designation** R12: Extremely flammable  
R51/53: Toxic to aquatic organisms.  
May cause long-term adverse effects in the aquatic organisms.

## 4. First aid measures

**After inhalation** Rest, take the casualty into the fresh air.  
**After skin contact** Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Call a physician when there is irritation.  
**After eye contact** Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.  
**After ingestion** Rinse mouth with cold water and drink 250 ml of water. Seek medical assistance.

## 5. Fire-fighting measures

**Special hazards** Exposure to fire can cause the sprays to crack  
**Suitable extinguishing media** Alcohol resistant foam, CO2, sand.  
**Unsuitable extinguishing media** Waterjet.  
**Special protective equipment** Appropriate breathing apparatus and full protective clothing.  
**Special fire-fighting procedures** If possible stop product stream. Spray from a protected place until the aerosols are cool. Bring the sprays, if possible, outside in open air and keep away from sources of ignition.

## 6. Accidental release measures

**Personal precautions** Use personal protective measures.  
**Environmental precautions** Try to keep away from drains or watercourses.  
**After spilling/leaking/escaping of gas** Avoid contact with eyes and skin. Eliminate sources of ignition. Provide good ventilation. Try to stop the streaming. Do not breathe vapours.  
**Procedure** Spillages should be soaked up in a non-combustible absorbent material such as sand or earth. Shovel up and place in a sealable container for product recovery or safe disposal. Do not use compressed air for cleaning up.



## 7. Handling and storage

### Information for safe handling

Pressurised 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 naked flame or any incandescent material. Keep away from sources of ignition. No smoking. Keep out of reach of children. Use with adequate ventilation. Do not inhale the spray particles. Avoid contact with skin and eyes. Keep away from moisture.

## 8. Exposure controls/personal protection

### Technical measures

Use this device only in well ventilated places.

### Personal protective equipment

#### Respiratory protection

Not necessary. Use in an adequate ventilated place, do not breathe the spray particles.

#### Hand protection

Not necessary. Wash hands after use.

#### Eye protection

Not necessary, but avoid contact with eyes.

#### Hygienic measures

Do not smoke, eat or drink during use.

#### Avoid contact with eyes and skin

When not enough ventilated, a mask is recommended.

## 9. Physical and chemical properties

### Physical condition:

Suspension under pressure – propellant: DME

### Colour:

Grey

### Odour:

Aromatic

### Boiling temperature:

41° C

### Flash point :

< 0 °C (with propellant)

### Density :

1.180 g/ml (at 20°C)

### Water content:

< 0.3 %

### Solubility in water :

not applicable

### Pressure:

20°C: ca. 4 bar

50°C: <9 bar

### pH:

Not applicable

## 10. Stability and reactivity

### Stability

Stable and no harmful reactions under recommended storage and handling conditions (See section 7).

### Conditions to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

Conditions to avoid: heat, flames, glowing objects and sources of ignition, contact with water and acids.

## 11. Toxicological information

### Inhalation

Pain in the throat, coughing, headache, dizziness, dullness, breathing difficulties.

### Skin contact

Frequent contact with skin may cause irritation.

### Eye contact

Irritating to eyes

### Ingestion

Stomach ache, nausea, vomiting, drowsiness.

## 12. Ecological information

Do not empty into waters or drains.



### 13. Disposal considerations

**Disposal** Dispose in a safe manner in accordance with local/national regulations.

### 14. Transport information

**UN Number:** 1950  
**Technical designation of the product:** Aerosol ( $\leq 1.000 \text{ cm}^3$ ).  
**Label:** 2.1.  
**ADR:** 2.5 F  
**IMO/IMDG:** 2  
**IATA/ICAO:** 2.1.  
**EMS:** 2-13

### 15. Regulatory information

**Classification according to EEC directives**  
**Danger symbol and danger designation**

**R-phrases** F + Extremely flammable.  
N: Dangerous to the environment.  
XN: Harmful.  
R12 Extremely flammable.  
R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**S-phrases** S2: Keep out of the reach of children.  
S3: Keep in a cool place.  
S16: Keep away from sources of ignition- no smoking.  
S23: Do not breathe gases/ fumes/ vapour/spray  
S43: In case of fire, use powder. Never use water.  
S51: Use only in well-ventilated areas.  
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets. Pressurised container.  
Do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Keep away from sources of ignition.

### 16. Other information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the user's working conditions however. The user is responsible for the observance of all required statutory provisions.

#### Further information

ZINGASPRAY is a product of ZINGAMETALL bvba.

This information is based on our current knowledge en is only meant to describe the aspects of health, safety and environment for this product. This information is not construed as technical specification or as guarantee of the product.

#### Applications:

Long lasting galvanic (cathodic) protection of all your ferrous metals by galvanisation against atmospheric influences, sewage water, diluted acids, salt water,...

Suitable for repair and maintenance of clear metal, damaged Zinc surfaces en hot-dip galvanisation. Provides an affective corrosion protection to all metallic surfaces such as tubes, pipes, kettles, solos, sheet of corrugated iron, coach-work, fences, plumbing, central heating, tools, containers, metal framework, tanks,...in the industrial, shipbuilding and Construction sectors, Agricultural maintenance and elsewhere. Protects welded seams, machine parts, sheet metal, difficult access areas. Instructions: see label.

Recommended uses and restrictions: See Technical data sheet for detailed information.

The data on this sheet are merely indicative. They are the result of our knowledge and experience on to the present day and they come forth from sources that we consider trustworthy. The conditions or methods of handling, storage, use or elimination of the product cannot be controlled by us and are therefore outside our competence. For these and other reasons we decline all responsibility in case of loss, damage or costs that are caused by or that are linked in any way to the handling, the storage, the use or the elimination of the product. Any claim concerning deficiencies must be made within 3 months upon reception of the goods. We keep the right to change the formula if properties of the raw material are changed. This data sheet replaces all former specimens.