



# Zinc Spray

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

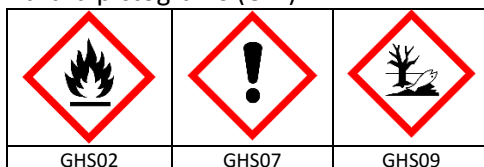
- 1.1. *Product identifier*  
Product form: Mixture  
Trade name: Galvana zinc spray, GZ-750  
Chemical characterization: Aerosol
- 1.2. *Relevant identified uses of the substance or mixture and uses advised against*  
Main use category: Aerosol, For professional use only
- 1.3. *Details of the supplier of the safety data sheet*  
Manufacturer: Jefo Ship Supply  
De Dissel 12  
8332 JH Steenwijk  
Nederland  
Tel: +31 (0)6 83 70 12 19  
E-mail: [info@jefoshipsupply.nl](mailto:info@jefoshipsupply.nl)  
Website: [www.jefoshipsupply.nl](http://www.jefoshipsupply.nl)
- 1.4. *Emergency telephone number*  
Emergency number: +31 (0)592 40 77 97  
This number is serviced during office hours.

## 2. Hazards identification

- 2.1. *Classification of the substance or mixture*  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Aerosol 1 H222  
Aerosol 1 H229  
Skin Irrit 2 H315  
Eye Irrit 2 H315  
STOT SE 3 H336  
Aquatic acute 1 H400  
Aquatic chronic 1 H410

Full text of H-phrases: see section 16

- 2.2. *Label elements*  
Labeling according to Regulation (EC) No. 1272/2008 [CLP]  
Hazard pictograms (CLP)



CLP Signal word: Danger



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## Hazard statements (CLP)

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking

## Precautionary statements (CLP)

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
P261	Avoid breathing spray
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

## 2.3 Other hazards

No additional information available.

## 3. Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture:

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dimethylether	CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	25-50	Flam. Gas 1, H220; Press. Gas C, H280
Zinc powder	CAS: 7440-66-6 EINECS: 231-175-3 Reg.nr.: 01-2119467174-37	25-50	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Acetone	CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	10-25	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
Xylene	CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	2,5-10	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin



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			Irrit. 2, H315
Hydrocarbons, C9, aromatics	EC-nummer: 918-668-5 Reg.nr.: 01-2119455851-35	2,5-10	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336
Zinc oxide	CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32	1-2,5	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
2-propanol	CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	1-2,5	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

Full text of H-phrases: see section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures general: In all cases of doubt, or when symptoms persist, seek medical attention. After adequate first aid, no further treatment is required unless symptoms reappear.

After inhalation: Take victim to fresh air, in a quiet place and if necessary take medical advice. If unconscious, place in the recovery position and seek medical advice.

After skin contact: Wash off immediately with soap and plenty of water removing at the same time all contaminated clothes. Wash clothing before re-using. Do not remove clothing if it sticks to the skin.

After eye contact: Rinse immediately with plenty of water, also under the eyelids. First-aid measures after ingestion: Rinse mouth out with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek medical advice (show the label where possible).

### 4.2. Most important symptoms and effects, both acute and delayed

After inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

After skin contact: May stain the skin. May cause slight irritation to the skin.

After eye contact: May stain the eyes. May cause eye irritation.

After ingestion: May cause slight irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed



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No additional information available.

## 5. Firefighting measures

- 5.1. *Extinguishing media*  
Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
- 5.2. *Special hazards arising from the substance or mixture*  
Fire hazard: No information available on this specific product, however by analogy, the product is considered to be: No fire hazard.
- Explosion hazard: Product does not present an explosion hazard.
- Hazardous decomposition products in case of fire: Release of harmful/irritant gases/vapours.
- 5.3. *Advice for firefighters*  
Firefighting instructions: Exercise caution when fighting any chemical fire. Cool tanks/drums with water spray/remove them into safety.
- Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information: Prevent fire-fighting water from entering environment.

## 6. Accidental release measures

- 6.1. *Personal precautions, protective equipment and emergency procedures*  
General measures: Avoid contact with skin, eyes and clothing. Avoid breathing dust, mist or spray. Do not eat, drink or smoke when using this product.
- 6.1.1. *For non-emergency personnel*  
Protective equipment: Wear recommended personal protective equipment. Refer to chapter 8.
- Emergency procedures: Provide adequate ventilation. Wear suitable respiratory equipment in case of insufficient ventilation. Keep unprotected persons from entering.
- 6.1.2. *For emergency responders*  
Protective equipment: Wear recommended personal protective equipment. Refer to chapter 8.
- Emergency procedures: Provide adequate ventilation. Wear suitable respiratory equipment in case of insufficient ventilation. Keep unprotected persons from entering.



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- 6.2. *Environmental precautions*  
Prevent entry to sewers and public waters.
- 6.3. *Methods and material for containment and cleaning up*  
Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Wash away remainder with plenty of water.
- 6.4. *Reference to other sections*  
See section(s): 8, 13.

## 7. Handling and storage

- 7.1. *Precautions for safe handling*  
Precautions for safe handling: Keep away from sources of ignition - No smoking. Avoid all unnecessary exposure.
- Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Do not drink, eat or smoke in the workplace.
- 7.2. *Conditions for safe storage, including any incompatibilities*  
Storage conditions: Keep away from heat. Protect from freezing. Keep out of the reach of children.
- Prohibitions on mixed storage: Keep away from food, drink and animal feeding stuffs.
- Storage area: Store in dry, cool, well-ventilated area. Keep container tightly closed.
- Packaging materials: Store in original container.
- 7.3. *Specific end use(s)*  
No additional information available.

## 8. Exposure controls/personal protection

- 8.1. *Control parameters*

<b>115-10-6 dimethylether</b>	
WGW	STEL: 1500 mg/m <sup>3</sup> , 782 ppm TWA: 950 mg/m <sup>3</sup> , 495 ppm
<b>67-64-1 acetone</b>	
WGW	STEL: 2420 mg/m <sup>3</sup> , 1000 ppm TWA: 1210 mg/m <sup>3</sup> , 500 ppm
<b>1330-20-7 xylene (mix)</b>	



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MAC STEL: 442 mg/m<sup>3</sup>, 100 ppm  
TWA: 221 mg/m<sup>3</sup>, 50 ppm

## 67-63-0 2-propanol

BGW TWA: 650 mg/m<sup>3</sup>, 250 ppm

### DNEL's

## 7440-66-6 Zinc powder

Oral	DNEL Long term-systemic	50 mg/kg bw/day (Worker)
Dermal	DNEL Long term-systemic	5000 mg/kg bw/day (Consumer) 5000 mg/kg bw/day (Worker)
Inhalation	DNEL Long term-systemic	2.5 mg/m <sup>3</sup> (Consumer) 5 mg/m <sup>3</sup> (Worker)

## 67-64-1 acetone

Oral	DNEL Long term-systemic	62 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	62 mg/kg bw/day (Consumer) 186 mg/kg bw/day (Worker)
Inhalation	DNEL Acute-local	2420 mg/m <sup>3</sup> (Worker)
	DNEL Long term-systemic	200 mg/m <sup>3</sup> (Consumer) 1210 mg/m <sup>3</sup> (Worker)

## Hydrocarbons, C9, aromatics

Oral	DNEL Long term-systemic	11 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	11 mg/kg bw/day (Consumer) 25 mg/kg bw/day (Worker)
Inhalation	DNEL Long term-systemic	32 mg/m <sup>3</sup> (Consumer) 100 mg/m <sup>3</sup> (Worker)

## 1314-13-2 zinc oxide

Oral	DNEL Long term-systemic	0.83 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	87 mg/kg bw/day (Consumer) 87 mg/kg bw/day (Worker)
Inhalation	DNEL Long term-systemic	2.5 mg/m <sup>3</sup> (Consumer) 5 mg/m <sup>3</sup> (Worker)



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## 67-63-0 2-propanol

Oral	DNEL Long term-systemic	26 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	319 mg/kg bw/day (Consumer) 888 mg/kg bw/day (Worker)
Inhalation	DNEL Long term-systemic	89 mg/m <sup>3</sup> (Consumer) 500 mg/m <sup>3</sup> (Worker)

## PNEC's

### 7440-66-6 Zinc powder

PNEC Freshwater	20.6 ug/l (Undefined)
PNEC Freshwater sediment	118 mg/kg (Undefined)
PNEC Marine water	6.1 ug/l (Undefined)
PNEC Marine water sediment	56.5 mg/kg (Undefined)
PNEC Sewage Treatment Plant	52 ug/l (Undefined)
PNEC Soil	56.6 mg/kg (Undefined)

### 67-64-1 acetone

PNEC Freshwater sediment	30.4 mg/kg (Undefined)
PNEC Marine water	1.06 mg/l (Undefined)
PNEC Marine water sediment	3.04 (Undefined)
PNEC Soil	29.5 mg/kg (Undefined)

### 1314-13-2 zinc oxide

PNEC Freshwater	20.6 ug/l (Undefined)
PNEC Freshwater sediment	117 mg/kg (Undefined)
PNEC Marine water	6.1 ug/l (Undefined)
PNEC Marine water sediment	56.5 mg/kg (Undefined)
PNEC Sewage Treatment Plant	52 ug/l (Undefined)
PNEC Soil	35.6 mg/kg (Undefined)



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**Additional data:****100-41-4 ethylbenzene**BGW STEL: 430 mg/m<sup>3</sup>, 100 ppmTAW: 215 mg/m<sup>3</sup>, 50 ppm

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**108-88-3 toluene**BGW STEL: 150 mg/m<sup>3</sup>, 40 ppmWGW TAW: 384 mg/m<sup>3</sup>, 100 ppm**8.2. Exposure controls**

Appropriate engineering controls: Ventilate area. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment: Gloves. Protective clothing. Safety glasses. High gas/vapour concentration: gas mask.

Hand protection: Chemical resistant gloves (according to European standard NF EN 374 or equivalent), e.g. PVC gloves - Nitrile-rubber protective gloves. Since the product consists of several substances, it is not possible to estimate the durability of the glove material beforehand and it therefore needs to be tested before use.

Eye protection: Wear tight fitting safety glasses or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: No respiratory protection needed under normal use conditions. High gas/vapour concentration: gas mask.

Environmental exposure controls: Avoid release to the environment.

Other information: Keep away from food, drink and animal feeding stuffs.

## 9. Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

Physical state	Aerosol, active substance: liquid
Appearance	Liquid
Colour	Accordinging product information
Odour	Characteristic.





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Odour threshold	No data available
pH	No data available
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	-24°C
Flash point	Substance: -42°C
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	Propane/butane mixture: 300-800kPa (20°C)
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	Substance: 1,06/cm <sup>3</sup> (20 °C) Propane/butane mixture: 0,54 g/cm <sup>3</sup> (liquid at 15 °C)
Solubility	Water: Insoluble
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Product does not present an explosion hazard.
Oxidising properties	No data available
Explosive limits	Propane/butane mixture, laagste: 1,5 vol.% Propane/butane mixture, hoogste: 9,5 vol.%

- 9.2. *Other information*  
No additional information available.

## 10. Stability and reactivity

- 10.1. *Reactivity*  
No additional information available.
- 10.2. *Chemical stability*  
Stable under use and storage conditions as recommended in section 7.
- 10.3. *Possibility of hazardous reactions*  
No dangerous reactions known.
- 10.4. *Conditions to avoid*  
Keep away from open flames, hot surfaces and sources of ignition.
- 10.5. *Incompatible materials*  
Strong acids. Oxidizing agent.
- 10.6. *Hazardous decomposition products*



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When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, fumes, nitrogen oxides (NOx).

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity:

#### Classification LD/LC50-values:

##### 7440-66-6 zinc powder

Oraal LD50 >2000 mg/kg (rat)

Inhalatief LC50/4h >5.4 mg/l (rat)

##### 67-64-1 acetone

Oraal LD50 5800 mg/kg (rat)

Dermaal LD50 7800 mg/kg (rabbit)

Inhalatief LC50/4h >20 mg/l (rat)

##### 1330-20-7 xylene (mix)

Oraal LD50 4300 mg/kg (rat)

Dermaal LD50 2000 mg/kg (rabbit)

##### Hydrocarbons, C9, aromatics

Oraal LD50 3295 mg/kg (rat)

Dermaal LD50 >3160 mg/kg (rat)

##### 1314-13-2 zinc oxide

Oraal LD50 >5000 mg/kg (rat)

Dermaal LD50 >2000 mg/kg (rat)

Inhalatief LC50 >5700 (4 hours) mg/L (rat)

LC50/4h >5700 mg/l (rat)

##### 67-63-0 2-propanol

Oraal LD50 5840 mg/kg (rat)

Dermaal LD50 13900 mg/kg (rabbit)

Inhalatief LC50/6h 25000 mg/m3 (rat)

Skin corrosion/irritation: May cause irritation

Serious eye damage/irritation: May cause eye irritation

Respiratory or skin sensitisation: Based on available data. Not classified.

Germ cell mutagenicity: Based on available data. Not classified.

Carcinogenicity: Based on available data. Not classified.

Reproductive toxicity: Based on available data. Not classified.

Specific target organ toxicity (single exposure): Based on available data. Not classified.



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Specific target organ toxicity (repeated exposure): Based on available data. Not classified.

Aspiration hazard: Based on available data. Not classified.

## 12. Ecological information

- 12.1. *Toxicity*  
Ecology - general: Do not allow into drains or water courses.
- 12.2. *Persistence and degradability*  
No additional information available
- 12.3. *Bioaccumulative potential*  
No additional information available
- 12.4. *Mobility in soil*  
No additional information available
- 12.5. *Results of PBT and vPvB assessment*  
No additional information available
- 12.6. *Other adverse effects*  
No additional information available

## 13. Disposal considerations

- 13.1. *Waste treatment methods*  
Regional legislation (waste): Disposal must be done according to official regulations.
- Sewage disposal recommendations: Do not discharge into drains.
- Waste disposal recommendations: If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

## 14. Transport information

14.1	<b>UN number</b> <ul style="list-style-type: none"><li>ADR, ADN, IMDG, IATA</li></ul>	<ul style="list-style-type: none"><li>UN1950</li></ul>
14.2	<b>UN proper shipping name</b> <ul style="list-style-type: none"><li>ADR, ADN</li><li>IMDG</li></ul>	<ul style="list-style-type: none"><li>UN1950 AEROSOLS, MARINE POLLUTANT</li></ul>



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	<ul style="list-style-type: none"> <li>IATA</li> </ul>	<ul style="list-style-type: none"> <li>AEROSOLS (zinc powder -zinc dust (stabilized), Hydrocarbons,C9,aromatics), MARINE POLLUTANT</li> <li>AEROSOLS, flammable</li> </ul>
14.3	<b>Transport hazard class(es)</b> <ul style="list-style-type: none"> <li>ADR</li> <li>Class</li> <li>Label</li> </ul>	<ul style="list-style-type: none"> <li>2 5F Gasses</li> <li>2.1</li> </ul>
	<ul style="list-style-type: none"> <li>ADN</li> <li>ADN/R class:</li> </ul>	<ul style="list-style-type: none"> <li>2 5F</li> </ul>
	<ul style="list-style-type: none"> <li>IMDG</li> <li>Class</li> <li>Label</li> </ul>	<ul style="list-style-type: none"> <li>2.1</li> <li>2.1</li> </ul>
	<ul style="list-style-type: none"> <li>IATA</li> <li>Class</li> <li>Label</li> </ul>	<ul style="list-style-type: none"> <li>2.1</li> <li>2.1</li> </ul>
14.4	<b>Packaging group:</b> <ul style="list-style-type: none"> <li>ADR, IMDG, IATA</li> </ul>	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>
14.5	<b>Enviromental hazardous:</b> <ul style="list-style-type: none"> <li>Marine pollutant:</li> <li>Special Labeling (ADR):</li> </ul>	<ul style="list-style-type: none"> <li>Aerosols (zinc powder -zinc dust (stabilized), Hydrocarbons,C9,aromatics)</li> <li>Yes</li> <li>Symbol (fish hand three)</li> </ul>
	<b>Transport data</b>	
14.6	<b>Special precautions for user</b> <ul style="list-style-type: none"> <li>Kemler no:</li> <li>EMS-no:</li> </ul>	Warning: Gasses <ul style="list-style-type: none"> <li>-</li> <li>F-D,S-U</li> </ul>
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
	<ul style="list-style-type: none"> <li>ADR</li> <li>LQ</li> <li>EQ</li> <li>Tunnel restriction Code</li> </ul>	<ul style="list-style-type: none"> <li>1L</li> <li>Code: EO</li> <li>D</li> </ul>
	<ul style="list-style-type: none"> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Not permitted as Excepted Quantity</li> </ul>	<ul style="list-style-type: none"> <li>1L</li> <li>Code: EO</li> </ul>
	<ul style="list-style-type: none"> <li>VN "Model Regulation":</li> </ul>	<ul style="list-style-type: none"> <li>UN1950, AEROSOLS, MARINE POLLUTANT, 2.1</li> </ul>



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## 15. Regulatory information

15.1. *Safety, health and environmental regulations/legislation specific for the substance or mixture*

EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

Germany

Water hazard class (WGK): 2 - hazard to waters

WGK remark: (estimated value)

15.2. *Chemical safety assessment*

No chemical safety assessment has been carried out.

## 16. Other information

Indication of changes:

Identification of the substance/mixture and of the company/undertaking. Hazards identification. Composition/information on ingredients. First aid measures. Firefighting measures. Accidental release measures. Handling and storage. Exposure controls/personal protection. Physical and chemical properties. Stability and reactivity. Toxicological information. Ecological information. Disposal considerations. Transport information. Regulatory information. Other information

Data sources:

Echa.europa.eu

Manufacturer/supplier

Richtsnoer voor etikettering en verpakking in overeenstemming met

Verordening (EG) nr. 1272/2008

Regulation (EC) no. 1272/2008

- H222 Extremely flammable aerosol.
- 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.
- H400 Very toxic in aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.



**Safety Data Sheet**  
According to Regulation (EC)  
No. 1907/2006 and (EC) no. 435/2010

Pagina 14 van 14  
Revision: no. 1  
Revision date: 29-5-2015  
Supersede: no. 0  
Supersedes date: 8-1-2015

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*