

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.01.2014

Version number 6

Revision: 17.01.2014

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

- **Product identifier**
- **Trade name:** Eurolub Zink-Spray - 400 ml
- **Article number:** 00454 3
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
 SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU21 Consumer uses: Private households / general public / consumers
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the preparation:** Paint
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 EUROLUB GmbH
 Freisinger Strasse 25-27
 85386 Eching bei München

 Telefon: 08165 / 95 91 - 0
 Fax: 08165 / 95 91 - 20
 Email: info@eurolub.de
- **Further information obtainable from:**
 Herr Günter Dietz
 Telefon: +49-(0)8165 / 95 91-0 (über Zentrale vermittelt)
 Email: info@eurolub.de
- **Emergency telephone number:**
 Beratungsstelle bei Vergiftungen, Mainz
 Tel. 0049 (0) 6131 / 19240

2 Hazards identification

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



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS09 environment

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



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.



F+; Extremely flammable

R12: Extremely flammable.

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N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

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

- **Hazard pictograms** GHS02, GHS07, GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**

acetone

- **Hazard statements**

H222-H229 Extremely flammable aerosol. 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**

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

P102 Keep out of reach of children.

P103 Read label before use.

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

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

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

- **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

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. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

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




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· Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	25-50%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-xxxx 02-2119752542-40-0000	acetone  Xi R36;  F R11 R66-67  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	20-<25%
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9	zinc powder -zinc dust (stabilized)  N R50/53  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	10-<25%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35-0002	Kohlenwasserstoffe, C9, Aromaten  Xn R65;  Xi R37;  N R51/53 R10-66-67  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H335-H336	3-<10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	3-<10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **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.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** 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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Recommended storage temperature: 10-30 °C.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

67-64-1 acetone

IOELV Long-term value: 1210 mg/m³, 500 ppm

· **DNELs**

67-64-1 acetone

Oral DNEL 62 mg/kg/bw/day (human)

Dermal DNEL 62 mg/kg bw/day (human)

Inhalative DNEL 200 mg/m³ (human)

Kohlenwasserstoffe, C9, Aromaten

Oral DNEL 11 mg/kg/bw/day (population) (Long-term - systemic effects)

Dermal DNEL 11 mg/kg bw/day (population) (Long-term - systemic effects)

25 mg/kg bw/day (worker) (Long-term - systemic effects)

Inhalative DNEL 32 mg/m³ (population) (Long-term - systemic effects)

150 mg/m³ (worker) (Long-term - systemic effects)

- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** When used properly and under normal conditions, breathing protection is not required.

· **Protection of hands:**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **As protection from splashes gloves made of the following materials are suitable:** PVC or PE gloves

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Light weight protective clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Aerosol

Colour: Dark grey

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable for an aerosol *

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 365 °C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Protect from sunlight and temperatures above 50 °C. Development of explosive vapor / air mixtures.

· **Explosion limits:**

Lower: 1,5 Vol %

Upper: 13,0 Vol %

· **Vapour pressure at 20 °C:** 2100 hPa

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· Density at 20 °C:	2,1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOCV (CH)	79,51 %
· Other information	* The final mixture in the aerosol is formed only after the addition of the pressurized gas. Some data are not measurable in a hermetically sealed, pressurized container.

10 Stability and reactivity

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

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values relevant for classification:		
106-97-8 butane		
Inhalative	LC50/4 h	658 mg/l (rat)
67-64-1 acetone		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)
Kohlenwasserstoffe, C9, Aromaten		
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
74-98-6 propane		
Inhalative	LC50/4 h	>20 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

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· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

67-64-1 acetone

EC50 / 48h	>100 mg/l (daphnia magna)
LC50	20,000 mg/l (rabbit)
LC50 / 96 h	7500 mg/l (Leuciscus idus (Aland))
	5540 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
LC50/48h	12600 mg/l (daphnia magna)
NOEC / 16h	1700 mg/l (Pseudomonas putida)
NOEC / 48h	4740 mg/l (Pseudokirchneriella subcapitata)

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological 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

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

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

· **European waste catalogue**

16 05 04*	gases in pressure containers (including halons) containing dangerous substances
15 01 04	metallic packaging
15 01 11*	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

· <i>UN-Number</i> · <i>ADR, IMDG, IATA</i>	<i>UN1950</i>
· <i>UN proper shipping name</i> · <i>ADR</i> · <i>IMDG</i> · <i>IATA</i>	<i>1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS</i> <i>AEROSOLS</i> <i>AEROSOLS, flammable</i>
· <i>Transport hazard class(es)</i> · <i>ADR</i>	
	
· <i>Class</i> · <i>Label</i>	<i>2 5F Gases.</i> <i>2.1</i>
· <i>IMDG, IATA</i>	
	
· <i>Class</i> · <i>Label</i>	<i>2.1</i> <i>2.1</i>
· <i>Packing group</i> · <i>ADR, IMDG, IATA</i>	<i>Void</i>
· <i>Environmental hazards:</i> · <i>Marine pollutant:</i>	<i>Product contains environmentally hazardous substances: zinc powder - zinc dust (stabilized)</i> <i>No</i>
· <i>Special precautions for user</i> · <i>Danger code (Kemler):</i> · <i>EMS Number:</i>	<i>Warning: Gases.</i> <i>-</i> <i>F-D,S-U</i>
· <i>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i>	<i>Not applicable.</i>
· <i>Transport/Additional information:</i>	
· <i>ADR</i> · <i>Limited quantities (LQ)</i> · <i>Transport category</i> · <i>Tunnel restriction code</i>	<i>1L</i> <i>2</i> <i>D</i>
· <i>UN "Model Regulation":</i>	<i>UN1950, AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS</i>

15 Regulatory information

· *Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*

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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.*
- H319 *Causes serious eye irritation.*
- H335 *May cause respiratory irritation.*
- H336 *May cause drowsiness or dizziness.*
- H400 *Very toxic to aquatic life.*
- H410 *Very toxic to aquatic life with long lasting effects.*
- H411 *Toxic to aquatic life with long lasting effects.*
- R10 *Flammable.*
- R11 *Highly flammable.*
- R12 *Extremely flammable.*
- R36 *Irritating to eyes.*
- R37 *Irritating to respiratory system.*
- R50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- R65 *Harmful: may cause lung damage if swallowed.*
- R66 *Repeated exposure may cause skin dryness or cracking.*
- R67 *Vapours may cause drowsiness and dizziness.*

· **Abbreviations and acronyms:**

- ADR: *Accord européen sur le transport 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 Harmonized 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)*
- VOCV: *Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)*
- DNEL: *Derived No-Effect Level (REACH)*
- LC50: *Lethal concentration, 50 percent*
- LD50: *Lethal dose, 50 percent*