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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Zinkspray Zinc Spray

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:

Corrosion protection Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)

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|--|-----------------------------|---|
| Hazard class | Hazard category | Hazard statement |
| STOT RE | 2 | H373-May cause damage to organs through prolonged |
| | | or repeated exposure. |
| Eye Irrit. | 2 | H319-Causes serious eye irritation. |
| STOT SE | 3 | H335-May cause respiratory irritation. |
| Skin Irrit. | 2 | H315-Causes skin irritation. |
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. |
| STOT SE | 3 | H336-May cause drowsiness or dizziness. |
| Aquatic Chronic | 2 | H411-Toxic to aquatic life with long lasting effects. |
| Aerosol | 1 | H222-Extremely flammable aerosol. |
| Aerosol | 1 | H229-Pressurised container: May burst if heated. |
| Asp. Tox. STOT SE Aquatic Chronic Aerosol | - 1 3 | H315-Causes skin irritation. H304-May be fatal if swallowed and enters airways. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. |



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2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



H373-May cause damage to organs through prolonged or repeated exposure. H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P260-Do not breathe vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection. P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501-Dispose of contents / container to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible. Acetone Hydrocarbons, C9, aromatics Xylene

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

| 3.1 Substances | |
|--|---|
| ^{n.a.} 3.2 Mixtures | |
| Acetone | Substance for which an EU exposure limit value applie |
| Registration number (REACH) | 01-2119471330-49-XXXX |
| Index | 606-001-00-8 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-662-2 |
| CAS | 67-64-1 |
| content % | 10-20 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 |
| | Flam. Liq. 2, H225 |
| | Eye Irrit. 2, H319 |
| | STOT SE 3, H336 |
| | |
| Xylene | Substance for which an EU exposure limit value applie |
| Registration number (REACH) | |
| Index | 601-022-00-9 |
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| EINECS, ELINCS, NLP, REACH-IT List-No. | 215-535-7 |
|--|-------------------------|
| CAS | 1330-20-7 |
| content % | 10-20 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226 |
| | Acute Tox. 4, H312 |
| | Acute Tox. 4, H332 |
| | Skin Irrit. 2, H315 |
| | Eye Irrit. 2, H319 |
| | STOT SE 3, H335 |
| | STOT RE 2, H373 |
| | Asp. Tox. 1, H304 |
| | Aquatic Chronic 3, H412 |

| Zinc powder - zinc dust (stabilized) | |
|--|-------------------------------|
| Registration number (REACH) | |
| Index | 030-001-01-9 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 231-175-3 |
| CAS | 7440-66-6 |
| content % | 5-15 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Aquatic Acute 1, H400 (M=1) |
| | Aquatic Chronic 1, H410 (M=1) |

| Hydrocarbons, C9, aromatics | |
|--|-------------------------|
| Registration number (REACH) | 01-2119455851-35-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 918-668-5 |
| CAS | 64742-95-6 |
| content % | 5-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 |
| | Flam. Liq. 3, H226 |
| | STOT SE 3, H335 |
| | STOT SE 3, H336 |
| | Asp. Tox. 1, H304 |
| | Aquatic Chronic 2, H411 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately. Danger of aspiration. In case of vomiting, keep head low so that the stomach content does not reach the lungs.



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4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation. Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic gases

Danger of bursting (explosion) when heated Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available. Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations



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Ensure good ventilation. Avoid inhalation of the vapours. Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charging, if appropriate. Do not use on hot surfaces. Avoid contact with eyes or skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Observe special regulations for aerosols! Observe special storage conditions. Do not store with flammable or self-igniting materials. Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place. Store cool.

7.3 Specific end use(s)

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No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 500 mg/m3

| Chemical Name Acetone | | |
|---|---|--------------------------|
| WEL-TWA: 500 ppm (1210 mg/m3) (WEL, EU) | WEL-STEL: 1500 ppm (3620 mg/m3) (WEL) | |
| Monitoring procedures: - | Draeger - Acetone 100/b (CH 22 901) | |
| - | Draeger - Acetone 40/a (5) (81 03 381) | |
| - | Compur - KITA-102 SA (548 534) | |
| - | Compur - KITA-102 SC (548 550) | |
| - | Compur - KITA-102 SD (551 109) | |
| | INSHT MTA/MA-031/A96 (Determination of ketones (aceton | e, methyl ethyl ketone, |
| | methyl isobutyl ketone) in air - Charcoal tube method / Gas | chromatography) - 1996 - |
| - | EU project BC/CEN/ENTR/000/2002-16 card 67-1 (2004) | |
| | MDHS 72 (Volatile organic compounds in air – Laboratory m | |
| - | sorbent tubes, thermal desorption and gas chromatography) | - 1993 |
| - | NIOSH 1300 (KETONES I) - 1994 | |
| - | NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREI | ENING)) - 1996 |
| - | NIOSH 2555 (KETONES I) - 2003 | |
| | NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXT | FRACTIVE FTIR |
| - | SPECTROMETRY) - 2016 | |
| - | OSHA 69 (Acetone) - 1988 | |
| BMGV: | Other information: | |
| Chemical Name Xylene | | |
| WEL-TWA: 220 mg/m3 (50 ppm) (WEL), 50 ppm | WEL-STEL: 100 ppm (441 mg/m3 (WEL), 100 ppm | |
| (221 mg/m3) (EU) | (442 mg/m3) (EU) | |
| Monitoring procedures: | Draeger - Xylene 10/a (67 33 161) | |
| | Compur - KITA-143 SA (550 325) | |
| | Comput - KITA-143 SR (505 325) | |
| | | |
| | | |



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| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-----------------|-----------------------------------|
| | Environment - marine | | PNEC | 1,06 | mg/l | Assesment factor 500 |
| | Environment - freshwater | | PNEC | 10,6 | mg/l | Assesment factor 50 |
| | Environment - sediment, freshwater | | PNEC | 30,4 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 3,04 | mg/kg dw | |
| | Environment - soil | | PNEC | 29,5 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 19,5 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 21 | mg/l | Assesmen factor 100 |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 62 | mg/kg bw/day | Overall assesment factor 2 |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 62 | mg/kg bw/day | Overall assesment factor 20 |



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| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 200 | mg/m3 | Overall assesment factor 5 |
|---------------------|--------------------|--------------------------------|------|------|-----------------|----------------------------------|
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 186 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 2420 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 1210 | mg/m3 | |

| Area of application | Exposure route / Environmental | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|---------------------------------------|------------------------------|------------|-------|-----------------|------|
| | compartment | | | | | |
| | Environment - periodic | | PNEC | 0,327 | mg/l | |
| | release | | | | | |
| | Environment - sewage | | PNEC | 6,58 | mg/l | |
| | treatment plant | | | | | |
| | Environment - freshwater | | PNEC | 0,327 | mg/l | |
| | Environment - marine | | PNEC | 0,327 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 12,46 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 12,46 | mg/kg dw | |
| | Environment - soil | | PNEC | 2,31 | mg/kg dw | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 174 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 174 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 14,8 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 108 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 1,6 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 289 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 289 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 77 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 180 | mg/kg bw/day | |

| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--------------------------|---------------------|------------|-------|------------|------|
| | Environmental | | | | | |
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 20,6 | µg/l | |
| | Environment - marine | | PNEC | 6,1 | µg/l | |
| | Environment - sewage | | PNEC | 52 | µg/l | |
| | treatment plant | | | | | |
| | Environment - sediment, | | PNEC | 117,8 | mg/kg dw | |
| | freshwater | | | | | |
| | Environment - sediment, | | PNEC | 56,5 | mg/kg | |
| | marine | | | | | |
| | Environment - soil | | PNEC | 35,6 | mg/kg | |
| Consumer | Human - oral | Long term, systemic | DNEL | 0,83 | mg/kg bw/d | |
| | | effects | | | | |
| Consumer | Human - dermal | Long term, systemic | DNEL | 83 | mg/kg | |
| | | effects | | | | |



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| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 2,5 | mg/m3 | |
|---------------------|--------------------|--------------------------------|------|-----|-------|--|
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 5 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 83 | mg/kg | |

| Hydrocarbons, C9, aroma | atics | | | | | |
|-------------------------|--|--------------------------------|------------|-------|-----------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 32 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 11 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 11 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 25 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 150 | mg/m3 | |

| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|---|--------------------------------|------------|-------|-----------------|------|
| | Environmental | | | | | |
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 0,115 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 600,4 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 62,2 | mg/l | |
| | Environment - soil | | PNEC | 207,7 | mg/kg dw | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 13000 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 10 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 10 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m3 | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.



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Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

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EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Protective gloves in butyl rubber (EN ISO 374). Minimum layer thickness in mm: >= 0,7 mm Permeation time (penetration time) in minutes: >= 60 Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: If OES or MEL is exceeded. Gas mask filter A (EN 14387), code colour brown Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state: | Aerosol. Active substance: liquid. |
|---|--|
| Colour: | Grey |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | -0° 0> |
| Flammability: | Does not apply to aerosols. |
| Lower explosion limit: | There is no information available on this parameter. |
| Upper explosion limit: | There is no information available on this parameter. |
| Flash point: | Does not apply to aerosols. |
| Auto-ignition temperature: | >200 °C |
| Decomposition temperature: | There is no information available on this parameter. |
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pH:

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Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Oxidising liquids: Mixture is non-soluble (in water). Does not apply to aerosols. Not miscible Does not apply to mixtures. There is no information available on this parameter. 0,92671 g/cm3 (20°C) Does not apply to aerosols. Does not apply to aerosols.

Possible build up of explosive/highly flammable vapour/air mixture. There is no information available on this parameter.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Possible build up of explosive/highly flammable vapour/air mixture.

10.4 Conditions to avoid

See also section 7. Pressure increase will result in danger of bursting. Heating, open flame, ignition sources Electrostatic charge

10.5 Incompatible materials

See also section 7. Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2 No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|----------|-------------|-------------------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | ATE | >2000 | mg/kg | | | calculated value |
| Acute toxicity, by inhalation: | ATE | >20 | mg/l/4h | | | calculated value, |
| | | | _ | | | Vapours |
| Acute toxicity, by inhalation: | ATE | >5 | mg/l/4h | | | calculated value, |
| | | | _ | | | Aerosol |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin | | | | | | No indications of |
| sensitisation: | | | | | | such an effect. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - | | | | | | n.d.a. |
| single exposure (STOT-SE): | | | | | | |
| Specific target organ toxicity - | | | | | | n.d.a. |
| repeated exposure (STOT-RE): | | | | | | |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |



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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|--------|---------------|---------------------------|---|---|
| Acute toxicity, by oral route: | LD50 | 5800 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >15800 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 76 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Guinea pig | | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitizising |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | | | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |
| Symptoms: | | | | | | unconsciousnes , vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg bw/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|----------|------------------------|--------------------|
| Acute toxicity, by oral route: | LD50 | 3523 | mg/kg | Rat | | Does not |
| | | | | | | conform with EU |
| | | | | | | classification. |
| Acute toxicity, by dermal route: | LD50 | 12126 | mg/kg | Rabbit | | Does not |
| | | | | | | conform with EU |
| | | | | | | classification. |
| Acute toxicity, by inhalation: | LC50 | 27 | mg/l/4h | Rat | | Vapours, Does |
| | | | | | | not conform with |
| | | | | | | EU classification. |
| Skin corrosion/irritation: | | | | Rabbit | (Draize-Test) | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Irritant |
| Respiratory or skin | | | | | (Patch-Test) | Negative |
| sensitisation: | | | | | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative |
| | | | | | Reverse Mutation Test) | |
| Aspiration hazard: | | | | | | Yes |



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Zinkspray Zinc Spray breathing Symptoms: difficulties, drying of the skin., drowsiness, unconsciousness , burning of the membranes of the nose and throat, vomiting, skin afflictions, heart/circulatory disorders, coughing, headaches, drowsiness, dizziness, nausea Specific target organ toxicity -Irritation of the single exposure (STOT-SE), inhalative: respiratory tract

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|-------|----------|----------|-------------|---|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | >5410 | mg/m3/4h | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 5,41 | mg/l/4h | Rat | | Dusts or mist |
| Symptoms: | | | | | | respiratory distress, chest pain (thorax pain), fever, join pain, heart/circulatory disorders, coughing, metal fume fever, muscle pains, mucous membrane irritation, chills, nausea and yomiting. |

| Hydrocarbons, C9, aromatics Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--|----------|---------|---------|----------|-----------------------|--------------|
| Acute toxicity, by oral route: | LD50 | 3492 | mg/kg | Rat | OECD 401 (Acute Oral | |
| | | | | | Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >3160 | mg/kg | Rabbit | OECD 402 (Acute | |
| | | | | | Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5,693 | mg/l/4h | Rat | OECD 403 (Acute | Analogous |
| | | | | | Inhalation Toxicity) | conclusion |
| Acute toxicity, by inhalation: | LC50 | > 6,193 | mg/l/4h | Rat | OECD 403 (Acute | Vapours |
| | | | | | Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | | | Repeated |
| | | | | | | exposure may |
| | | | | | | cause skin |
| | | | | | | dryness or |
| | | | | | | cracking. |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosion) | |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Not irritant |
| | | | | | Irritation/Corrosion) | |



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| | Sensitisation) OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
|---------------------------|---|--|
| | Aborration (CSt) | |
| | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| | OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells) | Negative |
| Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative, Analogous conclusion |
| | | Negative |
| Rat | OECD 421 (Reproduction/Developm ental Toxicity Screening Test) | Negative, Analogous conclusion |
| | Developmental Toxicity Study) | Negative |
| | generation Reproduction Toxicity | Negative |
| | | STOT SE 3, H335, STOT SE 3, H336 |
| | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Negative |
| | OECD 452 (Chronic Toxicity Studies) | Negative |
| | | Yes respiratory |
| | | distress, coughing, burning of the membranes of the nose and throat, drowsiness, dizziness, headaches, nausea, unconsciousnes , fever, ear |
| | typhimurium | Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells) Salmonella typhimurium Rat OECD 471 (Bacterial Reverse Mutation Test) Rat OECD 421 (Reproduction/Developm ental Toxicity Screening Test) OECD 414 (Prenatal Developmental Toxicity Study) OECD 416 (Two- generation Reproduction Toxicity Study) OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

| Butane | | | | | | |
|--------------------------------|----------|-------|---------|-------------|------------------------|----------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | |



Negative

Negative

OECD 473 (In Vitro

Mammalian Chromosome Aberration Test)

œ Page 14 of 24 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0033 Replacing version dated / version: 22.04.2021 / 0032 Valid from: 01.11.2021 PDF print date: 01.11.2021 Zinkspray Zinc Spray Germ cell mutagenicity: Germ cell mutagenicity: Human being OECD 473 (In Vitro

| | | | | | Mammalian Chromosome Aberration Test) | |
|---|-------|--------|------|-----|--|--|
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Aspiration hazard: | | | | | | No |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 21,394 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) | |
| Symptoms: | | | | | | ataxia, breathing difficulties, drowsiness, unconsciousness, , frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting. |

| Propane | | | | | | |
|--------------------------------|----------|--------|---------|-------------|------------------------|----------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 260000 | ppmV/4h | Rat | | Gasses, Male, |
| | | | | | | Analogous |
| | | | | | | conclusion |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro | Negative |
| | | | | | Mammalian | • |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | - |
| Reproductive toxicity | NOAEC | 21,641 | mg/l | | OECD 422 (Combined | |
| (Developmental toxicity): | | | - | | Repeated Dose Tox. | |
| | | | | | Study with the | |
| | | | | | Reproduction/Developm. | |
| | | | | | Tox. Screening Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | breathing |
| | | | | | | difficulties, |
| | | | | | | unconsciousnes |
| | | | | | | , frostbite, |
| | | | | | | headaches, |
| | | | | | | cramps, mucou |
| | | | | | | membrane |
| | | | | | | irritation, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | | | | | vomiting. |



No other relevant information available on adverse effects on health.

| Safety data sheet according to Repuision data (version: 01.11.20) | | 10 1907/2000 | , Annex n | | | |
|---|------------------|--------------|-----------|-------------|--|---|
| Revision date / version: 01.11.20 Replacing version dated / version | | / 0032 | | | | |
| Valid from: 01.11.2021 | . 22.04.2021 | / 0032 | | | | |
| PDF print date: 01.11.2021 | | | | | | |
| Zinkspray | | | | | | |
| Zinc Spray | | | | | | |
| | | _ | | | | |
| Specific target organ toxicity - | NOAEL | 7,214 | mg/l | Rat | OECD 422 (Combined | |
| repeated exposure (STOT-RE), | | | | | Repeated Dose Tox. | |
| inhalat.: | | | | | Study with the | |
| | | | | | Reproduction/Developm. | |
| Chapitia target argen taviaity | LOAEL | 21 644 | | Rat | Tox. Screening Test) OECD 422 (Combined | |
| Specific target organ toxicity - repeated exposure (STOT-RE), | LUAEL | 21,641 | mg/l | Rai | Repeated Dose Tox. | |
| inhalat.: | | | | | Study with the | |
| Innalat | | | | | Reproduction/Developm. | |
| | | | | | Tox. Screening Test) | |
| | 1 | 1 | | 1 | Tox. Corcerning 1650 | <u> </u> |
| Barium sulphate | | | | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >15000 | mg/kg | Rat | IUCLID Chem. Data | |
| | | | - | | Sheet (ESIS) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | | Rat | | Analogous |
| | | | | | | conclusion |
| Skin corrosion/irritation: | | | | | OECD 404 (Acute | Not irritant |
| | | | | | Dermal Irritation/Corrosion) | |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Not irritant |
| Senous eye damage/imation. | | | | Rabbit | Irritation/Corrosion) | Notimiant |
| Respiratory or skin | | | | Mouse | OECD 429 (Skin | No (skin |
| sensitisation: | | | | | Sensitisation - Local | contact), |
| | | | | | Lymph Node Assay) | Analogous |
| | | | | | | conclusion |
| Germ cell mutagenicity: | | | | | | Negative |
| la a hutana | | | | | | |
| Isobutane Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | Endpoint LC50 | 658 | mg/l/4h | Rat | Test method | NOLES |
| Acute toxicity, by inhalation: | LC50 | 260000 | ppmV/4h | Rat | | Gasses, Male |
| Acute toxicity, by initialation. | 2030 | 200000 | ppinv/4ii | Παι | | Casses, Male |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Germ cell mutagenicity: | † | | | Salmonella | OECD 471 (Bacterial | Negative |
| · · · · · · · · · · · · · · · · · · · | | | | typhimurium | Reverse Mutation Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | unconsciousnes |
| | | | | | | , frostbite, |
| | | | | | | headaches, |
| | | | | | | cramps, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | 04.00 (| | Det | | vomiting. |
| Specific target organ toxicity - | NOAEL | 21,394 | mg/l | Rat | OECD 422 (Combined | |
| repeated exposure (STOT-RE), | | | | | Repeated Dose Tox. | |
| inhalat.: | | | | | Study with the | |
| | | | | | Reproduction/Developm. Tox. Screening Test) | |
| | L | | <u> </u> | | | |
| | | | | | | |
| | her hazar | ds | | | | |
| Zinkspray | her hazar | ds | | | | |
| 11.2. Information on ot Zinkspray Zinc Spray Toxicity / effect | | | Unit | Organism | Test method | Notes |
| Zinkspray Zinc Spray Toxicity / effect | her hazaro | ds Value | Unit | Organism | Test method | Notes Does not apply |
| Zinkspray Zinc Spray | | | Unit | Organism | Test method | Notes Does not apply to mixtures. |

Other information:



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SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).
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| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|-------|------|----------|-------------|----------------|
| 12.1. Toxicity to fish: | - | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and | | | | | | | n.d.a. |
| degradability: | | | | | | | |
| 12.3. Bioaccumulative | | | | | | | n.d.a. |
| potential: | | | | | | | |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT | | | | | | | n.d.a. |
| and vPvB assessment | | | | | | | |
| 12.6. Endocrine | | | | | | | Does not apply |
| disrupting properties: | | | | | | | to mixtures. |
| 12.7. Other adverse | | | | | | | No information |
| effects: | | | | | | | available on |
| | | | | | | | other adverse |
| | | | | | | | effects on the |
| | | | | | | | environment. |

| Acetone | | | | - | | | |
|----------------------------|-----------|------|-------|------|--------------------|--------------------|----------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Other organisms: | EC5 | 72h | 28 | mg/l | Entosiphon | | |
| | | | | | sulcatum | | |
| 12.1. Toxicity to fish: | EC50 | 96h | 8300 | mg/l | Lepomis | | |
| | | | | _ | macrochirus | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 8300 | mg/l | Lepomis | | |
| | | | | _ | macrochirus | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 5540 | mg/l | Oncorhynchus | | |
| | | | | _ | mykiss | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 7500 | mg/l | Leuciscus idus | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 6100- | mg/l | Daphnia magna | | |
| | | | 12700 | | | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 8800 | mg/l | Daphnia pulex | OECD 202 | |
| | | | | | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 28d | 2212 | mg/l | Daphnia pulex | OECD 211 | |
| | | | | | | (Daphnia magna | |
| | | | | | | Reproduction Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 8d | 530 | mg/l | | DIN 38412 T.9 | Test organism: |
| | | | | | | | M. aeruginosa |
| 12.1. Toxicity to algae: | EC50 | 48h | 4740 | mg/l | Pseudokirchneriell | | |
| | | | | _ | a subcapitata | | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 48h | 3400 | mg/l | Pseudokirchneriell | | |
| | | | | | a subcapitata | | |
| 12.2. Persistence and | | 28d | 91 | % | | OECD 301 A | Readily |
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | |
| | | | | | | DOC Die-Away | |
| | | | | | | Test) | |
| 12.2. Persistence and | | 28d | 91 | % | | OECD 301 B | Readily |
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | - |
| | | | | | | Co2 Evolution | |
| | | | | | | Test) | |



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| 12.2. Persistence and | | 30d | 81-92 | % | | Regulation (EC) | Readily |
|--|---------|-------|-------|------|------------------|--------------------------------|------------------|
| degradability: | | | | | | 440/2008 C.4-E | biodegradable |
| | | | | | | (DETERMINATIO | - |
| | | | | | | N OF 'READY' | |
| | | | | | | BIODEGRADABILI | |
| | | | | | | TY - CLOSED | |
| | | | | | | BOTTLE TEST) | |
| 12.3. Bioaccumulative | Log Pow | | -0,24 | | | OECD 107 | |
| potential: | | | | | | (Partition | |
| | | | | | | Coefficient (n- | |
| | | | | | | octanol/water) - | |
| | | | | | | Shake Flask | |
| (0.0. D) | 505 | | | | | Method) | |
| 12.3. Bioaccumulative potential: | BCF | | 0,19 | | | | Low |
| 12.4. Mobility in soil: | | | | | | | No adsorption in |
| | | | | | | | soil. |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| T . 1. 16 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 | 5040 | 00.00 | 1000 | | | 0500.000 | vPvB substance |
| Toxicity to bacteria: | EC10 | 30min | 1000 | mg/l | activated sludge | OECD 209 | |
| | | | | | | (Activated Sludge, | |
| | | | | | | Respiration Inhibition Test | |
| | | | | | | (Carbon and | |
| | | | | | | Ammonium | |
| | | | | | | Oxidation)) | |
| Toxicity to bacteria: | BOD/COD | 16h | 1700 | mg/l | Pseudomonas | | |
| - | | | | | putida | | |
| Other information: | BOD5 | | 1760- | mg/g | | | |
| | | | 1900 | | | | |
| Other information: | AOX | | 0 | % | | | |
| Other information: | COD | | 2070 | mg/g | | | |

| Xylene | | | | | | | |
|----------------------------|--------------|------|--------|------|---------------|--------------------|---------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.2. Persistence and | | | >60 | % | | OECD 301 F | Readily |
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | - |
| | | | | | | Manometric | |
| | | | | | | Respirometry Test) | |
| 12.3. Bioaccumulative | Log Pow | | 3 | | | | A notable |
| potential: | | | | | | | biological |
| | | | | | | | accumulation |
| | | | | | | | potential is not to |
| | | | | | | | be expected |
| | | | | | | | (LogPow 1-3). |
| 12.3. Bioaccumulative | BCF | | 25,9 | | | | |
| potential: | | | | | | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 2,6 | mg/l | Oncorhynchus | | |
| | | | | | mykiss | | |
| 12.1. Toxicity to daphnia: | | 48h | 1 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | 2,2 | mg/l | | | |
| 12.1. Toxicity to algae: | NOEC/NOEL | | 0,44 | mg/l | | | |
| Zinc powder - zinc dust | (stabilized) | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 0,238- | mg/l | Oncorhynchus | | |
| | | | 0,56 | | mykiss | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 2,8 | mg/l | Daphnia magna | | |
| Hydrocarbons, C9, arom | atics | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |



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| 12.1. Toxicity to fish: | LC50 | 96h | 9,2 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
|---|---------|-------|-----------|------|-------------------------------------|--|---|
| 12.1. Toxicity to daphnia: | EC50 | 48h | 3,2 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | ErL50 | 72h | 2,9 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 54-56 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| 12.2. Persistence and degradability: | | 28d | 78 | % | activated sludge | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |
| 12.2. Persistence and degradability: | | 28d | 78 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | |
| 12.3. Bioaccumulative potential: | Log Pow | | 3,7 - 4,5 | | | · · · · · · · · · · · · · · · · · · · | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 10min | >99 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|---|----------|------|-------|------|----------|-------------|--|
| 12.1. Toxicity to fish: | LC50 | 96h | 24,11 | mg/l | | QSAR | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 14,22 | mg/l | | QSAR | |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,98 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|------|-------|------|----------|-------------|--|
| 12.3. Bioaccumulative potential: | Log Pow | | 2,28 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |



No PBT substance, No vPvB substance

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| 12.5. Results of PBT and vPvB assessment | | | |
|---|--|--|--|
| | | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|-----------|-------|-------|--------|--------------------|--------------------------------------|---------------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | >3,5 | mg/l | Brachydanio rerio | OECD 203 (Fish, | Analogous |
| | | | | | | Acute Toxicity | conclusion |
| | | | | | | Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 33d | >1,26 | mg/l | Brachydanio rerio | OECD 210 (Fish, | Analogous |
| | | | | | | Early-Life Stage | conclusion |
| 40.4 Taulaituta dan baiau | | 01-1 | 0.0 | | Danhais areas | Toxicity Test) | A |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 2,9 | mg/l | Daphnia magna | OECD 211 | Analogous conclusion |
| | | | | | | (Daphnia magna Reproduction Test) | conclusion |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 14,5 | mg/l | Daphnia magna | OECD 202 | Analogous |
| | 2000 | -1011 | 14,5 | iiig/i | Daprina magna | (Daphnia sp. | conclusion |
| | | | | | | Acute | 001101001011 |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | ErC50 | 72h | >1,15 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | Analogous |
| | | | | _ | a subcapitata | Growth Inhibition | conclusion |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >1,15 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | Analogous |
| | | | | | a subcapitata | Growth Inhibition | conclusion |
| | | | | | | Test) | |
| 12.2. Persistence and | | | | | | | Not relevant for |
| degradability: | | | | | | | inorganic |
| | | | | | | | substances., Inorganic |
| | | | | | | | products canno |
| | | | | | | | be eliminated |
| | | | | | | | from water |
| | | | | | | | through |
| | | | | | | | biological |
| | | | | | | | purification |
| | | | | | | | , methods. |
| 12.5. Results of PBT | | | | | | | n.a. |
| and vPvB assessment | | | | | | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------|----------|------|-------|------|----------|-------------|---------------------|
| 12.3. Bioaccumulative | | | | | | | A notable |
| potential: | | | | | | | biological |
| • | | | | | | | accumulation |
| | | | | | | | potential is not to |
| | | | | | | | be expected |
| | | | | | | | (LogPow 1-3). |
| 12.1. Toxicity to fish: | LC50 | 96h | 27,98 | mg/l | | | |
| 12.1. Toxicity to algae: | EC50 | 96h | 7,71 | mg/l | | | |
| 12.2. Persistence and | | | | | | | Readily |
| degradability: | | | | | | | biodegradable |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:



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The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 16 05 04 gases in pressure containers (including halons) containing hazardous substances Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. Take full aerosol cans to problem waste collection. Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations. 15 01 04 metallic packaging

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

| General | statements |
|---------|------------|
|---------|------------|

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| General statements | | | | | | |
|--|---------------------------|--|--|--|--|--|
| 14.1. UN number or ID number: | 1950 | | | | | |
| Transport by road/by rail (ADR/RID) | | | | | | |
| 14.2. UN proper shipping name: | | | | | | |
| UN 1950 AEROSOLS | | | | | | |
| 14.3. Transport hazard class(es): | 2.1 | | | | | |
| 14.4. Packing group: | - | | | | | |
| Classification code: | 5F 🔨 | | | | | |
| LQ: | 1L 🗸 | | | | | |
| 14.5. Environmental hazards: | environmentally hazardous | | | | | |
| Tunnel restriction code: | D | | | | | |
| Transport by sea (IMDG-code) | | | | | | |
| 14.2. UN proper shipping name: | | | | | | |
| AEROSOLS (ZINC POWDER) | | | | | | |
| 14.3. Transport hazard class(es): | 2.1 | | | | | |
| 14.4. Packing group: | | | | | | |
| EmS: | F-D, S-U | | | | | |
| Marine Pollutant: | Yes | | | | | |
| 14.5. Environmental hazards: | environmentally hazardous | | | | | |
| Transport by air (IATA) | | | | | | |
| 14.2. UN proper shipping name: | | | | | | |
| Aerosols, flammable | | | | | | |
| 14.3. Transport hazard class(es): | 2.1 | | | | | |
| 14.4. Packing group: | - - | | | | | |
| 14.5. Environmental hazards: | Not applicable | | | | | |
| 14.6. Special precautions for user | | | | | | |
| Persons employed in transporting dangerous goods must be trained. | | | | | | |
| All persons involved in transporting must observe safety regulations. | | | | | | |
| Precautions must be taken to prevent damage. | | | | | | |
| 14.7. Maritime transport in bulk according to IMC |) instruments | | | | | |
| Freighted as packaged goods rather than in bulk, therefore not applica | | | | | | |
| Minimum amount regulations have not been taken into account. | | | | | | |
| Danger code and packing code on request. | | | | | | |
| Comply with special provisions. | | | | | | |
| | ulatory information | | | | | |
| SECTION 15: Regulatory information | | | | | | |

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.



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For exceptions see Regulation (EU) 2019/1148 and guidelines for the implementation of Regulation (EU) 2019/1148. Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of | Qualifying quantity (tonnes) of |
|-------------------|------------------|--------------------------------------|--------------------------------------|
| | | dangerous substances as | dangerous substances as |
| | | referred to in Article 3(10) for the | referred to in Article 3(10) for the |
| | | application of - Lower-tier | application of - Upper-tier |
| | | requirements | requirements |
| E2 | | 200 | 500 |
| P3a | 11.1 | 150 (netto) | 500 (netto) |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

| Entry Nr | Dangerous substances | Notes to Annex I | Qualifying quantity (tonnes) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) for the application of - Upper-tier requirements |
|----------|---|------------------|--|--|
| | | | | |
| 18 | Liquefied flammable gases, Category 1 or 2 (including LPG) and natural das | 19 | 50 | 200 |
| | natural gas | | | |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

69,22 %

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

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1-16

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation | Evaluation method used |
|--|---|
| (EC) No. 1272/2008 (CLP) | |
| STOT RE 2, H373 | Classification according to calculation procedure. |
| Eye Irrit. 2, H319 | Classification according to calculation procedure. |
| STOT SE 3, H335 | Classification according to calculation procedure. |
| Skin Irrit. 2, H315 | Classification according to calculation procedure. |
| Asp. Tox. 1, H304 | Classification according to calculation procedure. |
| STOT SE 3, H336 | Classification according to calculation procedure. |
| Aquatic Chronic 2, H411 | Classification according to calculation procedure. |
| Aerosol 1, H222 | Classification according to calculation procedure. |
| Aerosol 1, H229 | Classification based on the form or physical state. |



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The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

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H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

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.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

STOT RE - Specific target organ toxicity - repeated exposure

Eye Irrit. - Eye irritation

STOT SE - Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation Asp. Tox. — Aspiration hazard

STOT SE - Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic - Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. - Flammable liquid

Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - inhalation

Aquatic Acute - Hazardous to the aquatic environment - acute

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) ATF Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BAuA BCF Bioconcentration factor BSEF The International Bromine Council body weight bw CAS Chemical Abstracts Service



ആ Page 23 of 24 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0033 Replacing version dated / version: 22.04.2021 / 0032 Valid from: 01.11.2021 PDF print date: 01.11.2021 Zinkspray Zinc Spray CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect European Economic Community EEC EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ΕN **European Norms** EPA United States Environmental Protection Agency (United States of America) $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera FU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number aen. general Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. no data available n.d.a. NIOSH National Institute for Occupational Safety and Health (USA) NI P No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic PF Polyethylene PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) **REACH-IT List-No.** 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Telephone Tel.



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TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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