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

1.1 Product identifier

Trade name: Sample concentrate Zink Alu Spray 750 ml 14-09032
Material number: 08814007Z

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company: ECKART GmbH
Guentersthal 4
91235 Hartenstein
Telephone: +499152770
Telefax: +499152777008
E-mail address: msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
From outside US: (001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free): 1-800-5355-053

SECTION 2: Hazards identification

GHS Classification

: Flammable liquids, Category 2, H225
Acute toxicity, Category 5, Dermal, H313
Skin corrosion/irritation, Category 2, H315
Specific target organ toxicity - single exposure, Category 3,
Central nervous system, H336
Specific target organ toxicity - repeated exposure, Category 2, H373
Short-term (acute) aquatic hazard, Category 2, H401
Long-term (chronic) aquatic hazard, Category 2, H411

GHS-Labelling

Symbol(s) : ☢ ☠ ☢ ☢
Signal word : Danger
Hazard statements : H225: Highly flammable liquid and vapour.
                   H313: May be harmful in contact with skin.
                   H315: Causes skin irritation.
                   H336: May cause drowsiness or dizziness.
                   H373: May cause damage to organs through prolonged or repeated exposure.
                   H411: Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:
                           P210   Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
                           P233   Keep container tightly closed.
                           P260   Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
                           P280   Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
           P312   Call a POISON CENTER/doctor if you feel unwell.
           P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label

<table>
<thead>
<tr>
<th>Identification</th>
<th>CAS-No.</th>
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<td>102000005100</td>
<td>A member of ALTANA</td>
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SECTION 3: Composition/information on ingredients

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<th>Substance name</th>
<th>Chemical name</th>
<th>CAS-No. EINECS-No.</th>
<th>Classification and labelling</th>
<th>Concentration [%]</th>
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<td>xylene</td>
<td>1330-20-7</td>
<td>Flam. Liq.;3;H226</td>
<td>Acute Tox.;4;H332</td>
<td>20 - 25</td>
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<tr>
<td></td>
<td>215-535-7</td>
<td>Acute Tox.;4;H312;2;H315</td>
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<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>Flam. Liq.;3;H226</td>
<td>Acute Tox.;5;H303</td>
<td>10 - 20</td>
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<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>Acute Tox.;5;H313</td>
<td>STOT SE;3;H335, H336</td>
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<td>Naphtha (petroleum), hydrodesulfurized heavy</td>
<td>64742-82-1</td>
<td>H228</td>
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<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>Flam. Sol.;1;H228</td>
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<tr>
<td></td>
<td>231-072-3</td>
<td>H303</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified</td>
<td>64742-95-6</td>
<td>Acute Tox.;5;H313</td>
<td>STOT SE;3;H335, H336</td>
<td>10 - 20</td>
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<td></td>
<td>231-072-3</td>
<td>Asp. Tox.;1;H304</td>
<td>Aquatic Chronic;2;H411</td>
<td></td>
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<tr>
<td>zinc powder - zinc dust (stabilised)</td>
<td>7440-66-6</td>
<td>Aquatic Acute;1;H400</td>
<td>Aquatic;2;H411</td>
<td>2.5 - 10</td>
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<td>231-175-3</td>
<td>H400</td>
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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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<th>Hazard Statements</th>
<th>H-Statements</th>
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<td>Acute Tox.;5;H303</td>
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<td></td>
<td>Acute Tox.;5;H313</td>
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<tr>
<td></td>
<td>Eye Irrit.;2A;H319</td>
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</tr>
<tr>
<td></td>
<td>STOT SE;3;H336</td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

**General advice:**

- Move the victim to fresh air.
- Do not leave the victim unattended.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.

If inhaled:
Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.

In case of skin contact:
Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact:
Immediately flush eye(s) with plenty of water.
Flush eyes with water as a precaution.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed:
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed
This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed
This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media : Dry sand, ABC powder, Foam

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush with water.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers: Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen). Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions: Protect from humidity and water.

Advice on common storage: Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s):

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Germany:

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<th>Components</th>
<th>CAS-No.</th>
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<th>Control parameters</th>
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<td>1330-20-7</td>
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<td>Senate commission for the review of compounds at the workplace dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible) Skin absorption</td>
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<td>aluminium powder (stabilised)</td>
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<td>67-64-1 TWA 500 ppm 1 210 mg/m³ 2000-06-16 2000/39/EC</td>
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### Table 1: Sample concentrate Zink Alu Spray 750 ml 14-09032

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<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>AGW Limit</th>
<th>TWA Limit</th>
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<td>Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha</td>
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Peak-limit: excursion factor (category) | 2;(II)  
---|---
Further information | Senate commission for the review of compounds at the workplace dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible)

Skin absorption
When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child.

### 8.2 Exposure controls

**Personal protective equipment**

Eye protection : Goggles

: Safety glasses

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Recommended preventive skin protection

Skin should be washed after contact.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: Use suitable breathing protection if workplace concentration requires.

In the case of vapour formation use a respirator with an approved filter.

Environmental exposure controls
General advice:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Water: The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: No data available
Odour: characteristic
pH: No data available
Freezing point: No data available
Boiling point/boiling range: 137 °C
Flash point: < 21 °C

Bulk density: No data available
Flammability (solid, gas): No data available
Auto-flammability: No data available
Upper explosion limit: No data available
Lower explosion limit: No data available
Vapour pressure: No data available
Density: ca. 1 g/cm³
Water solubility: No data available
Miscibility with water: immiscible
Solubility in other solvents: No data available
Partition coefficient: n-octanol/water: No data available
Ignition temperature: No data available
Thermal decomposition: No data available

Viscosity
Viscosity, dynamic: see user defined free text
Viscosity, kinematic: > 21 mm²/s (40 °C)

Flow time: 50 - 90 s at 20 °C
Cross section: 4 mm
Method: DIN 53211
9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid: Do not allow evaporation to dryness.

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid: Acids

Bases

Oxidizing agents

10.6 Hazardous decomposition products

Other information: No data available
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

- xylene:
  - Acute oral toxicity: LD50 Rat: 8 700 mg/kg
  - Acute inhalation toxicity: LC50 Rat: 6 350 mg/l
    - Exposure time: 4 h
    - Test atmosphere: vapour
  
  The component/mixture is moderately toxic after short term inhalation.

- Acute dermal toxicity: Acute toxicity estimate: 1 100 mg/kg
  - Method: Converted acute toxicity point estimate

  The component/mixture is moderately toxic after single contact with skin.

- Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:
  - Acute oral toxicity: LD50 Rat: 3 492 mg/kg
Acute dermal toxicity: LD50 Rabbit: > 3 160 mg/kg

zinc powder -zinc dust (stabilised):
Acute oral toxicity: Rat: > 2 000 mg/kg

acetone:
Acute oral toxicity: LD50 Rabbit: 4 700 - 5 800 mg/kg

Mouse: 3 000 mg/kg

Rat: 9 800 mg/kg

Acute inhalation toxicity: LC50 Rat: 76 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity: LD50 Rabbit: > 2 000 mg/kg

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:
Acute oral toxicity: LD50 Rat: > 5 000 mg/kg

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:
Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

Acute inhalation toxicity : LC50 Rat: Test atmosphere: vapour
   An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 Rabbit: > 5 000 mg/kg

**ethylbenzene :**
Acute oral toxicity : LD50 Rat: 3 500 mg/kg

Acute dermal toxicity : LD50 Rabbit: 5 000 mg/kg

**Skin corrosion/irritation**
**Product**
May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**
**Product**
Vapours may cause irritation to the eyes, respiratory system and the skin.

**Respiratory or skin sensitisation**
No data available
Carcinogenicity
   No data available

Toxicity to reproduction/fertility
   No data available

Reprod.Tox./Development/Teratogenicity
   No data available

STOT - single exposure
   No data available

STOT - repeated exposure
   No data available

Aspiration toxicity
   No data available

Further information
   Product
   Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity
Components:
Solvent naphtha (petroleum), light arom. (64742-95-6):
Ecotoxicology Assessment
Long-term (chronic) aquatic hazard: Toxic to aquatic life with long lasting effects.
Zinc (7440-66-6):
Ecotoxicology Assessment
Short-term (acute) aquatic hazard: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard: Very toxic to aquatic life with long lasting effects.
Acetone (67-64-1):
Toxicity to daphnia and other aquatic invertebrates: (Daphnia magna (Water flea)): 21 600 mg/l
Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1):
Ecotoxicology Assessment
Long-term (chronic) aquatic hazard: Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available
12.6 Other adverse effects

**Product:**

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

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**SECTION 13: Disposal considerations**

13.1 Waste treatment methods

**Product:**

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

In accordance with local and national regulations.

**Contaminated packaging:**

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

In accordance with local and national regulations.

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**SECTION 14: Transport information**

14.1 UN number

**ADR**: 1263

**TDG**: 1263

**CFR**: 1263

**IMDG**: 1263
IATA : 1263

14.2 Proper shipping name
ADR : PAINT
      (Zinc powder, stabilized)
TDG : PAINT
CFR : PAINT
IMDG : PAINT
      (Zinc powder, stabilized)
IATA : PAINT

14.3 Transport hazard class
ADR : 3
TDG : 3
CFR : 3
IMDG : 3
IATA : 3

14.4 Packing group
ADR
   Packaging group : II
   Classification Code : F1
   Hazard Identification Number : 33
   Labels : 3
   Tunnel restriction code : (D/E)

TDG
   Packaging group : II
   Labels : 3

CFR
14.5 Environmental hazards

IMDG : Marine pollutant
ADR : Environmentally hazardous

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.
H227 : Combustible liquid.
H228 : Flammable solid.
H303 : May be harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H312 : Harmful in contact with skin.
H313 : May be harmful in contact with skin.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H322 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H372 : Causes damage to organs through prolonged or repeated exposure.

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

H400 : Very toxic to aquatic life.
H401 : Toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a
guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.