SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Sample Conc. Messing Spray 750 ml 14-01013

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

1.1 Product identifier
   Trade name: Sample Conc. Messing Spray 750 ml 14-01013

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

2.1 Classification of the substance or mixture

   Classification (REGULATION (EC) No 1272/2008)
   Flammable aerosols, Category 1: H222: Extremely flammable aerosol.
   Eye irritation, Category 2: H319: Causes serious eye irritation.
   Specific target organ toxicity - single exposure, Category 3, Central nervous system: H336: May cause drowsiness or dizziness.
   Acute aquatic toxicity, Category 1: H400: Very toxic to aquatic life.
   Chronic aquatic toxicity, Category 2: H411: Toxic to aquatic life with long lasting effects.

   Classification (67/548/EEC, 1999/45/EC)
   Extremely flammable: R12: Extremely flammable.
   Irritant: R36: Irritating to eyes.
   Dangerous for the environment: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:
- Flammable
- Flammable aerosol
- Danger
- Serious eye irritation
- May cause drowsiness or dizziness
- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life
- Very toxic to aquatic life
- Causes serious eye irritation

Signal word: Danger

Hazard statements:
- H222: Extremely flammable aerosol.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H400: Very toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements:
- EUH066: Repeated exposure may cause skin dryness or cracking.

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.
- Prevention:
  - P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
  - P271: Use only outdoors or in a well-ventilated area.

Storage:
- P405: Store locked up.

Disposal:
- P501: Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
- 67-64-1: Acetone

Additional Labelling:
- S16, S2: Pressurized container. Protect from sunlight and do not expose to temperatures
2.3 Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>F; R11 Xi; R36 R66 R67</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 20 - &lt; 25</td>
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<tr>
<td></td>
<td>200-662-2</td>
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<td>01-2119471330-49</td>
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<td>ethyl acetate</td>
<td>141-78-6</td>
<td>F; R11 Xi; R36 R66 R67</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 15 - &lt; 20</td>
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<td>propane</td>
<td>74-98-6</td>
<td>F+; R12</td>
<td>Flam. Gas 1; H220 Press. Gas C; H280</td>
<td>&gt;= 10 - &lt; 20</td>
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<tr>
<td></td>
<td>200-827-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
<td>F+; R12</td>
<td>Flam. Gas 1; H220 Press. Gas C; H280</td>
<td>&gt;= 10 - &lt; 20</td>
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<tr>
<td></td>
<td>203-448-7</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td></td>
<td>Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335, H336 Aquatic Chronic 2; H411</td>
<td>&gt;= 2.5 - &lt; 10</td>
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<tr>
<td></td>
<td>265-199-0</td>
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<td></td>
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<td></td>
<td>01-2119455851-35</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>copper</td>
<td>7440-50-8</td>
<td>Xn-N; R22-R50/53</td>
<td>Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411</td>
<td>&gt;= 2.5 - &lt; 10</td>
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<tr>
<td></td>
<td>231-159-6</td>
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<td></td>
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</table>
**SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**General advice**: 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 eye contact**: Immediately flush eye(s) with plenty of water. 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.

### 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**: Carbon dioxide (CO2), Alcohol-resistant foam, Dry sand

**Unsuitable extinguishing media**: Water

### 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 fire fighting 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. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid breathing dust. 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: Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

This information is not available.
SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: 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. 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: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. 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. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type</th>
<th>Control</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
</table>

Page 6 / 22
<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm 1,210 mg/m³</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td>Further information</td>
<td>Indicative</td>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm 1,210 mg/m³</td>
</tr>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>STEL</td>
<td>1,500 ppm 3,620 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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<tr>
<td>Components</td>
<td>CAS-No.</td>
<td>Value type (Form of exposure)</td>
<td>Control parameters</td>
<td>Update</td>
<td>Basis</td>
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<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>TWA</td>
<td>200 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>STEL</td>
<td>400 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
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<td>Components</td>
<td>CAS-No.</td>
<td>Value type (Form of exposure)</td>
<td>Control parameters</td>
<td>Update</td>
<td>Basis</td>
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<tr>
<td>butane</td>
<td>106-97-8</td>
<td>STEL</td>
<td>750 ppm 1,810 mg/m³</td>
<td>2007-08-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td>Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases ‘R45: May cause cancer’; ‘R46: may cause heritable genetic damage’; ‘R49: May cause cancer by inhalation’ or - a substance or process listed in Schedule 1 of COSHH.Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene</td>
<td></td>
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</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
<td>TWA</td>
<td>600 ppm 1,450 mg/m³</td>
<td>2007-08-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td>Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases ‘R45: May cause cancer’; ‘R46: may cause heritable genetic damage’; ‘R49: May cause cancer by inhalation’ or - a substance or process listed in Schedule 1 of COSHH.Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene</td>
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<td>Components</td>
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<td>Value type (Form of exposure)</td>
<td>Control parameters</td>
<td>Update</td>
<td>Basis</td>
</tr>
<tr>
<td>copper</td>
<td>7440-50-8</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>
Further information

The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

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<tbody>
<tr>
<td>copper</td>
<td>7440-50-8</td>
<td>TWA (Respirable)</td>
<td>4 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
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<tr>
<td>copper</td>
<td>7440-50-8</td>
<td>TWA</td>
<td>1 mg/m³</td>
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<td>GB EH40</td>
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<td>7440-50-8</td>
<td>STEL</td>
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<td>TWA</td>
<td>0.2 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information

The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

Further information

The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

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<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc</td>
<td>7440-66-6</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>
no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used

<table>
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<tr>
<th>zinc</th>
<th>7440-66-6</th>
<th>TWA (Respirable)</th>
<th>4 mg/m³</th>
<th>2011-12-01</th>
<th>GB EH40</th>
</tr>
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Further information
The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

DNEL:
acetone (67-64-1)  
End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: long term – systemic effects  
Value: 186 mg/kg

DNEL:
acetone (67-64-1)  
End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: long term – systemic effects  
Value: 1210 mg/m³

DNEL:
acetone (67-64-1)  
End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: long term – systemic effects  
Value: 62 mg/kg

DNEL:
acetone (67-64-1)  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: long term – systemic effects  
Value: 62 mg/kg

DNEL:
acetone (67-64-1)  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: long term – systemic effects  
Value: 200 mg/m³

DNEL:
ethyl acetate (141-78-6)  
End Use: Workers  
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 1468 mg/m³

**DNEL:**
ethyl acetate (141-78-6)
End Use: Workers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 1468 mg/m³

**DNEL:**
ethyl acetate (141-78-6)
End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 734 mg/m³

**DNEL:**
ethyl acetate (141-78-6)
End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 63 mg/kg

**DNEL:**
ethyl acetate (141-78-6)
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 734 mg/m³

**DNEL:**
ethyl acetate (141-78-6)
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 734 mg/m³

**DNEL:**
ethyl acetate (141-78-6)
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 734 mg/m³

**DNEL:**
ethyl acetate (141-78-6)
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 367 mg/m³

**DNEL:**
ethyl acetate (141-78-6)
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 37 mg/kg

**DNEL:**
ethyl acetate (141-78-6)  
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 367 mg/m³

**DNEL:**
ethyl acetate (141-78-6)  
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 4.5 mg/kg

**DNEL:**
Solvent naphtha (petroleum), light arom. (64742-95-6)  
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 11 mg/kg

**DNEL:**
Solvent naphtha (petroleum), light arom. (64742-95-6)  
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 11 mg/kg

**DNEL:**
Solvent naphtha (petroleum), light arom. (64742-95-6)  
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 32 mg/m³

**DNEL:**
copper (7440-50-8)  
End Use: Workers
Exposure routes: Skin contact
Potential health effects: short term – systemic effects
Value: 273 mg/kg

**DNEL:**
copper (7440-50-8)  
End Use: Workers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 20 mg/m³

**DNEL:**
copper (7440-50-8)  
End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 137 mg/kg

**DNEL:**
copper (7440-50-8)
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: short term – systemic effects
Value: 273 mg/kg

**DNEL:**
copper (7440-50-8)
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 20 mg/m³

**DNEL:**
zinc (7440-66-6)
End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 5 mg/m³

**DNEL:**
zinc (7440-66-6)
End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 83 mg/kg

**DNEL:**
zinc (7440-66-6)
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 0.83 mg/kg

**DNEL:**
zinc (7440-66-6)
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 83 mg/kg

**DNEL:**
zinc (7440-66-6)
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 2.5 mg/m³

**PNEC:**
acetone (67-64-1)
Soil
Value: 29.5 mg/kg
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Sample Conc. Messing Spray 750 ml 14-01013
Version 1.0 Revision Date 11.03.2014 Print Date 20.11.2018

PNEC:
acetone (67-64-1) : Fresh water
Value: 10.6 mg/l

PNEC:
acetone (67-64-1) : Fresh water sediment
Value: 30.4 mg/kg

PNEC:
acetone (67-64-1) : Marine water
Value: 1.06 mg/l

PNEC:
acetone (67-64-1) : Marine sediment
Value: 3.04 mg/kg

PNEC:
ethyl acetate (141-78-6) : Soil
Value: 0.24 mg/kg

PNEC:
ethyl acetate (141-78-6) : STP
Value: 650 mg/l

PNEC:
copper (7440-50-8) : Soil
Value: 65.5 mg/kg

PNEC:
copper (7440-50-8) : Fresh water
Value: 0.0078 mg/l

PNEC:
copper (7440-50-8) : Fresh water sediment
Value: 87 mg/kg

PNEC:
copper (7440-50-8) : Marine water
Value: 0.0052 mg/l

PNEC:
copper (7440-50-8) : Marine sediment
Value: 676 mg/kg

PNEC:
copper (7440-50-8) : STP
Value: 0.230 mg/l
PNEC:
- zinc (7440-66-6) : Fresh water
  Value: 0.0206 mg/l

PNEC:
- zinc (7440-66-6) : Fresh water sediment
  Value: 117.8 mg/kg

PNEC:
- zinc (7440-66-6) : Marine water
  Value: 0.0061 mg/l

PNEC:
- zinc (7440-66-6) : STP
  Value: 0.052 mg/l

PNEC:
- zinc (7440-66-6) : Soil
  Value: 35.6 mg/kg

PNEC:
- zinc (7440-66-6) : Marine sediment
  Value: 56.5 mg/kg

8.2 Exposure controls

Personal protective equipment
Eye protection : Eye wash bottle with pure water
                Tightly fitting safety goggles

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.

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

Respiratory protection: In the case of vapour formation use a respirator with an
approved filter.
In the case of dust or aerosol formation use 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>aerosol</td>
</tr>
<tr>
<td>Colour</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH</td>
<td>no data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>-44 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>-97 °C</td>
</tr>
<tr>
<td>Bulk density</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>no data available</td>
</tr>
</tbody>
</table>
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 : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials
Materials to avoid : no data available
10.6 Hazardous decomposition products

Other information : no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

**Product**

- Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg
  Method: Calculation method

**Components:**

- 7440-66-6 :
  - Acute oral toxicity : rat: > 2,000 mg/kg
  - Acute inhalation toxicity : LC50 rat: 5.41 mg/l
  Exposure time: 4 h

Skin corrosion/irritation

**Product**

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

**Product**

May cause irreversible eye damage.

Respiratory or skin sensitisation

no data available

Carcinogenicity
Sample Conc. Messing Spray 750 ml 14-01013

Version 1.0

Revision Date 11.03.2014
Print Date 20.11.2018

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:
copper (7440-50-8):
M-Factor : 10

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., Very toxic to aquatic life., Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

European Waste Catalogue : 16 05 04 - gases in pressure containers (including halons) containing dangerous substances

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.

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.

SECTION 14: Transport information

14.1 UN number

ADR : 1950
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Sample Conc. Messing Spray 750 ml 14-01013

Version 1.0  Revision Date 11.03.2014  Print Date 20.11.2018

14.2 Proper shipping name

ADR : AEROSOLS
IMDG : AEROSOLS
(I, Copper metal powder)
IATA : AEROSOLS, FLAMMABLE

14.3 Transport hazard class

ADR : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADR

Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)

IMDG

Labels : 2.1
EmS Number : F-D, S-U

IATA

Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Labels : 2.1

14.5 Environmental hazards

ADR : Environmentally hazardous
IMDG : Marine pollutant

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
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 R-Phrases

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R50 Very toxic to aquatic organisms.
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.

Full text of H-Statements

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H26 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
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.
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.