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

1.1 Product identifier
   Trade name : Sample Agent Chromeffekt Spray 750 ml 17-09011

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
   Eye irritation, Category 2
   Specific target organ toxicity - single exposure, Category 3, Central nervous system
   Chronic aquatic toxicity, Category 3

   H222: Extremely flammable aerosol.
   H319: Causes serious eye irritation.
   H336: May cause drowsiness or dizziness.
   H412: Harmful to aquatic life with long lasting effects.

   Classification (67/548/EEC, 1999/45/EC)
   Extremely flammable
   Irritant
   Dangerous for the environment

   R12: Extremely flammable.
   R36: Irritating to eyes.
   R67: Vapours may cause drowsiness and dizziness.
   R52/53: Harmful to aquatic organisms, may cause
long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

Signal word: Danger

Hazard statements:
H222 Extremely flammable aerosol.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful 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, S 2 ; Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C., Do not pierce or burn, even after use., Do not spray on a naked flame or any incandescent material., Keep away from sources of ignition - No smoking., Keep out of the reach of
children.

2.3 Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>67-64-1 200-662-2 01-2119471330-49</td>
<td></td>
<td></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>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6 265-199-0 01-2119455851-35</td>
<td></td>
<td></td>
<td>Xn; R65 Xi; R37 N; R51/53 R10 R66 R67</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>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7 215-535-7</td>
<td></td>
<td></td>
<td>R10 Xn; R20/21 Xi; R38</td>
<td>Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>butanone</td>
<td>78-93-3 201-159-0 01-2119457290-43</td>
<td></td>
<td></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;= 3 - &lt; 10</td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>123-86-4 204-658-1 01-2119485493-29</td>
<td></td>
<td></td>
<td>R10 R66 R67</td>
<td>Flam. Liq. 3; H226 STOT SE 3; H336</td>
<td>&lt; 10</td>
</tr>
</tbody>
</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 skin contact : 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. 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
Sample Agent Chromeffekt Spray 750 ml 17-09011

Unsuitable extinguishing media: Water
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 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 (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</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></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Further information: 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.

<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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>further information</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm 1,210 mg/m3</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>TWA</td>
<td>50 ppm 220 mg/m3</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>
**Further information**
Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Value Type</th>
<th>Control Parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>STEL</td>
<td>100 ppm 441 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

**Further information**
Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Value Type</th>
<th>Control Parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>TWA</td>
<td>50 ppm 221 mg/m³</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
</tbody>
</table>

**Further information**
Identifies the possibility of significant uptake through the skin. Indicative.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Value Type</th>
<th>Control Parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>STEL</td>
<td>100 ppm 442 mg/m³</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
</tbody>
</table>

**Components**

<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>butanone</td>
<td>78-93-3</td>
<td>STEL</td>
<td>300 ppm 900 mg/m³</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
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</table>

**Further information**
Indicative.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Value Type</th>
<th>Control Parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>butanone</td>
<td>78-93-3</td>
<td>TWA</td>
<td>200 ppm 600 mg/m³</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
</tbody>
</table>

**Further information**
Indicative.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Value Type</th>
<th>Control Parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>butanone</td>
<td>78-93-3</td>
<td>TWA</td>
<td>200 ppm 600 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

**Further information**
Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Value Type</th>
<th>Control Parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>butanone</td>
<td>78-93-3</td>
<td>STEL</td>
<td>300 ppm 899 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

**Components**

<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>
</table>

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### Components

<table>
<thead>
<tr>
<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>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td>7429-90-5</td>
<td>TWA (Respirable)</td>
<td>4 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

#### Further information

For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. 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.
system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Limit Setting</th>
<th>TWA (Respirable)</th>
<th>Date</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA</td>
<td>4 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information

For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. 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. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. 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

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<table>
<thead>
<tr>
<th>DNEL:</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone (67-64-1)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>1210 mg/m³</td>
</tr>
<tr>
<td>acetone (67-64-1)</td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>62 mg/kg</td>
</tr>
<tr>
<td>acetone (67-64-1)</td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>62 mg/kg</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom. (64742-95-6)</td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom. (64742-95-6)</td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>11 mg/kg</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom. (64742-95-6)</td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>11 mg/kg</td>
</tr>
<tr>
<td>Xylene (1330-20-7)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>289 mg/m³</td>
</tr>
</tbody>
</table>
**Sample Agent Chromeffekt Spray 750 ml 17-09011**

| DNEL: xylene (1330-20-7) | End Use: Workers  
|--------------------------|------------------|------------------|------------------|
|                          | Exposure routes: Inhalation  
|                          | Potential health effects: short term – systemic effects  
|                          | Value: 289 mg/m³  

| DNEL: xylene (1330-20-7) | End Use: Workers  
|--------------------------|------------------|------------------|------------------|
|                          | Exposure routes: Inhalation  
|                          | Potential health effects: long term – systemic effects  
|                          | Value: 77 mg/m³  

| DNEL: xylene (1330-20-7) | End Use: Workers  
|--------------------------|------------------|------------------|------------------|
|                          | Exposure routes: Skin contact  
|                          | Potential health effects: long term – systemic effects  
|                          | Value: 180 mg/kg  

| DNEL: xylene (1330-20-7) | End Use: Consumers  
|--------------------------|------------------|------------------|------------------|
|                          | Exposure routes: Inhalation  
|                          | Potential health effects: short term – local effects  
|                          | Value: 174 mg/m³  

| DNEL: xylene (1330-20-7) | End Use: Consumers  
|--------------------------|------------------|------------------|------------------|
|                          | Exposure routes: Inhalation  
|                          | Potential health effects: short term – systemic effects  
|                          | Value: 174 mg/m³  

| DNEL: xylene (1330-20-7) | End Use: Consumers  
|--------------------------|------------------|------------------|------------------|
|                          | Exposure routes: Skin contact  
|                          | Potential health effects: long term – systemic effects  
|                          | Value: 108 mg/kg  

| DNEL: xylene (1330-20-7) | End Use: Consumers  
|--------------------------|------------------|------------------|------------------|
|                          | Exposure routes: Inhalation  
|                          | Potential health effects: long term – systemic effects  
|                          | Value: 14.8 mg/m³  

| DNEL: xylene (1330-20-7) | End Use: Consumers  
|--------------------------|------------------|------------------|------------------|
|                          | Exposure routes: Ingestion  
|                          | Potential health effects: long term – systemic effects  
|                          | Value: 1.6 mg/kg  

<table>
<thead>
<tr>
<th>DNEL:</th>
<th>End Use:</th>
<th>Exposure routes:</th>
<th>Potential health effects:</th>
<th>Value:</th>
</tr>
</thead>
<tbody>
<tr>
<td>butanone (78-93-3)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>600 mg/m³</td>
</tr>
<tr>
<td>butanone (78-93-3)</td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>31 mg/kg</td>
</tr>
<tr>
<td>butanone (78-93-3)</td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>412 mg/kg</td>
</tr>
<tr>
<td>butanone (78-93-3)</td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>106 mg/m³</td>
</tr>
<tr>
<td>n-butyl acetate (123-86-4)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>960 mg/m³</td>
</tr>
<tr>
<td>n-butyl acetate (123-86-4)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – systemic effects</td>
<td>960 mg/m³</td>
</tr>
<tr>
<td>n-butyl acetate (123-86-4)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>480 mg/m³</td>
</tr>
<tr>
<td>n-butyl acetate (123-86-4)</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>480 mg/m³</td>
</tr>
</tbody>
</table>
### DNEL:

**n-butyl acetate (123-86-4)**  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: short term – local effects  
Value: 859.7 mg/m³

**n-butyl acetate (123-86-4)**  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: short term – systemic effects  
Value: 859.7 mg/m³

**n-butyl acetate (123-86-4)**  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: long term – local effects  
Value: 102.34 mg/m³

**n-butyl acetate (123-86-4)**  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: long term – systemic effects  
Value: 102.34 mg/m³

### PNEC:

**acetone (67-64-1)**  
: Soil  
Value: 29.5 mg/kg

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

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

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

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

**xylene (1330-20-7)**  
: Soil  
Value: 2.31 mg/kg
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PNEC:
xylene (1330-20-7) :  
Fresh water
Value: 0.327 mg/l

PNEC:
xylene (1330-20-7) :  
Fresh water sediment
Value: 12.46 mg/kg

PNEC:
xylene (1330-20-7) :  
Marine water
Value: 0.327 mg/l

PNEC:
xylene (1330-20-7) :  
Marine sediment
Value: 12.46 mg/kg

PNEC:
xylene (1330-20-7) :  
STP
Value: 6.58 mg/l

PNEC:
butanone (78-93-3) :  
Soil
Value: 22.5 mg/l

PNEC:
butanone (78-93-3) :  
Fresh water
Value: 55.8 mg/l

PNEC:
butanone (78-93-3) :  
Fresh water sediment
Value: 284.7 mg/l

PNEC:
butanone (78-93-3) :  
Marine water
Value: 55.8 mg/l

PNEC:
n-butyl acetate (123-86-4) :  
Soil
Value: 0.0903 mg/kg

PNEC:
n-butyl acetate (123-86-4) :  
Fresh water
Value: 0.18 mg/l

PNEC:
n-butyl acetate (123-86-4) :  
Fresh water sediment
Value: 0.981 mg/kg
PNEC: n-butyl acetate (123-86-4) 
Value: 35.6 mg/l

PNEC: Marine water 
Value: 0.018 mg/l

PNEC: Marine sediment 
Value: 0.0981 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>silver</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable</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>not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Extremely flammable aerosol.</td>
</tr>
<tr>
<td>Auto-flammability</td>
<td>not auto-flammable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>upper flammability limit 13 %(V)</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>lower flammability limit 1.5 %(V)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Density</td>
<td>no data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
</tbody>
</table>
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 : 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

<table>
<thead>
<tr>
<th>Product</th>
<th>Acute toxicity estimate</th>
<th>Exposure time</th>
<th>Test atmosphere:</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute inhalation toxicity</td>
<td>&gt; 10 mg/l</td>
<td>4 h</td>
<td>dust/mist</td>
<td>Calculation method</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>&gt; 5 mg/l</td>
<td>4 h</td>
<td>dust/mist</td>
<td>Calculation method</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; 5,000 mg/kg</td>
<td></td>
<td></td>
<td>Calculation method</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; 2,000 mg/kg</td>
<td></td>
<td></td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Components:

1330-20-7:

<table>
<thead>
<tr>
<th>Acute dermal toxicity</th>
<th>Acute toxicity estimate</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt; 1,100 mg/kg</td>
<td>Converted acute toxicity point estimate</td>
</tr>
</tbody>
</table>

7429-90-5:
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Acute inhalation toxicity: LC50 rat: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Skin corrosion/irritation

Product
May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product
May cause irreversible eye damage.

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

no data available

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. Harmful 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
IMDG : 1950
IATA : 1950

14.2 Proper shipping name

ADR : AEROSOLS
IMDG : AEROSOLS
IATA : AEROSOLS, FLAMMABLE

14.3 Transport hazard class

ADR : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADR

Classification Code : 5F
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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
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 R-Phrases
R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
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R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

Full text of H-Statements

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H228 Flammable solid.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
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.