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

1.1 **Product identifier**
   - **Trade name**: Sample Agent Micaceous iron ore anthracite 14-09017 750 ml
   - **Product code**: 08804707Z

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 of person responsible for the SDS**: msds.eckart@altana.com

1.4 **Emergency telephone number**
   - **GBK Gefahrgut Büro GmbH, Ingelheim, Germany**:
     - From outside US: (001) 352-323-3500
     - 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)**
     - **Aerosols, Category 1**
       - H222: Extremely flammable aerosol.
       - H229: Pressurised container: May burst if heated.
     - **Specific target organ toxicity - repeated exposure, Category 2**
       - H373: May cause damage to organs through prolonged or repeated exposure.
     - **Long-term (chronic) aquatic hazard, Category 3**
       - H412: Harmful to aquatic life with long lasting effects.

2.2 **Label elements**
   - **Labelling (REGULATION (EC) No 1272/2008)**
Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

Hazard pictograms:

Signal word: Danger

Hazard statements:
- H222: Extremely flammable aerosol.
- H229: Pressurised container: May burst if heated.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:
- P101: If medical advice is needed, have product container or label at hand.
- P102: Keep out of reach of children.
- 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 dust/ fume/ gas/ mist/ vapours/ spray.

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

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

Hazardous components which must be listed on the label:
Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha

Additional Labelling
- EUH208: Contains Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether. May produce an allergic reaction.

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Hazardous components
### Safety Data Sheet

**Sample Agent Micaceous iron ore anthracite**

**14-09017 750 ml**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>butane</td>
<td>106-97-8</td>
<td>203-448-7</td>
<td>601-004-00-0</td>
<td>01-2119474691-32</td>
<td>Flam. Gas 1; H220; Press. Gas C; H280</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>200-827-9</td>
<td>601-003-00-5</td>
<td>01-2119486944-21</td>
<td>Flam. Gas 1; H220; Press. Gas Liquefied gas; H280</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>601-022-00-9</td>
<td></td>
<td>Flam. Liq. 3; H226; Acute Tox. 4; H332; Acute Tox. 4; H312; Skin Irrit. 2; H315</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td>solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>918-668-5</td>
<td>01-2119455851-35</td>
<td></td>
<td>Flam. Liq. 3; H226; STOT SE 3; H336; STOT SE 3; H335; Asp. Tox. 1; H304; Aquatic Chronic 2; H411</td>
<td>&gt;= 2.5 - &lt; 10</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha</td>
<td>64742-82-1</td>
<td>265-185-4</td>
<td>649-330-00-2</td>
<td>01-2119458049-33</td>
<td>Flam. Liq. 3; H226; STOT SE 3; H336; STOT RE 1; H372; Asp. Tox. 1; H304; Aquatic Chronic 2; H411</td>
<td>&gt;= 2.5 - &lt; 10</td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>123-86-4</td>
<td>204-658-1</td>
<td>607-025-00-1</td>
<td>01-2119485493-29</td>
<td>Flam. Liq. 3; H226; STOT SE 3; H336</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>202-849-4</td>
<td>601-023-00-4</td>
<td></td>
<td>Flam. Liq. 2; H225; Acute Tox. 4; H332; STOT RE 2; H373; Asp. Tox. 1; H304</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td>Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether</td>
<td>1262797-52-3</td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1; H317; Aquatic Acute 1; H400; Aquatic Chronic 1; H410</td>
<td>&gt;= 0.25 - &lt; 1</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>215-222-5</td>
<td>030-013-00-7</td>
<td>01-2119463881-32</td>
<td>Aquatic Acute 1; H400; Aquatic Chronic 1; H410</td>
<td>&gt;= 0.25 - &lt; 1</td>
</tr>
<tr>
<td>Fatty acids, tall-oil, reaction products with diethylenetriamine</td>
<td>61790-69-0</td>
<td>263-160-2</td>
<td></td>
<td></td>
<td>Acute Tox. 4; H302; Skin Corr. 1B; H314; STOT RE 2; H373; Aquatic Acute 1; H400; Aquatic Chronic 1;</td>
<td>&gt;= 0.1 - &lt; 0.25</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

Version 4.1 Revised Date: 17.12.2018
SDS Number: 102000000134
Print Date: 24.12.2018
Date of first issue: 11.03.2014

For explanation of abbreviations see section 16.

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: If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

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: 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

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

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
Carbon dioxide (CO2)
Alcohol-resistant foam
ABC powder

Alcohol-resistant foam
Carbon dioxide (CO2)
Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

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. 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 material for containment and cleaning up
Methods for cleaning up: Pick up and transfer to properly labelled containers.
Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

6.4 Reference to other sections

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.

Further information on storage stability:
- 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

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
</table>

A member of ALTANA
Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>TWA (Inhalable)</th>
<th>TWA (Respirable)</th>
<th>STEL (Respirable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hematite (Fe2O3)</td>
<td>1317-60-8</td>
<td>10 mg/m³</td>
<td>4 mg/m³</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Further information</td>
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</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>STEL 750 ppm</td>
<td></td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>TWA 50 ppm</td>
<td>STEL 100 ppm</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>TWA 100 ppm</td>
<td>STEL 200 ppm</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>123-86-4</td>
<td>TWA 150 ppm</td>
<td>STEL 200 ppm</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
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<td>Further information</td>
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</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.

Further information:
Capable of causing cancer and/or heritable genetic damage. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene.

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.

Further information:
Identifies the possibility of significant uptake through the skin, Indicative.
Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

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

<table>
<thead>
<tr>
<th>Control parameters</th>
<th>STEL</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>200 ppm 884 mg/m3</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>Control parameters</th>
<th>STEL</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>125 ppm 552 mg/m3</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.

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Sampling time</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine)</td>
<td>After shift</td>
<td>GB EH40 BAT</td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>221 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – systemic effects</td>
<td>442 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>221 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>442 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>212 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
<td>65.3 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>short term – systemic effects</td>
<td>260 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
<td>65.3 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>260 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>125 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
<td>12.5 mg/kg</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrodesulfurized heavy; Low boiling</td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
<td>44 mg/kg</td>
</tr>
</tbody>
</table>
point hydrogen treated naphtha

<table>
<thead>
<tr>
<th>Material</th>
<th>Exposure Route</th>
<th>Effect</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic effects</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>long term – local effects</td>
</tr>
</tbody>
</table>

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>Fresh water</td>
<td>0.327 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0.327 mg/l</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>6.58 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>12.46 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>12.46 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td>2.31 mg/kg</td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>Fresh water</td>
<td>0.18 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0.018 mg/l</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>35.6 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>0.981 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>0.0981 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td>0.0903 mg/kg</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>Fresh water</td>
<td>0.0206 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0.0061 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>117.8 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>56.5 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td>35.6 mg/kg</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>0.1 mg/l</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Personal protective equipment

Eye protection : 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 workplace.

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.

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>Odour Threshold</td>
<td>No data available</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>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

Self-ignition : No data available
Auto-ignition temperature : No data available
Smoldering temperature : No data available
Decomposition temperature : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : No data available
Density : No data available
Bulk density : No data available
Water solubility : No data available
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Decomposition temperature : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Flow time : No data available

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

10.6 Hazardous decomposition products
Contact with water or humid air: This information is not available.

Thermal decomposition: This information is not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not classified based on available information.

Product:
Acute inhalation toxicity: Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

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

Components:
propane:
Acute inhalation toxicity: LC50 (Rat): 800000 ppm
Exposure time: 0.25 h
### 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
  - **Assessment**: 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
  - **Assessment**: The component/mixture is moderately toxic after single contact with skin.

### solvent naphtha (petroleum), light arom.:

- **Acute oral toxicity**: LD50 (Rat): 3,492 mg/kg
- **Acute dermal toxicity**: LD50 (Rabbit): > 3,160 mg/kg

### Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:

- **Acute oral toxicity**: LD50 (Rat): > 5,000 mg/kg

### ethylbenzene:

- **Acute oral toxicity**: LD50 (Rat): 3,500 mg/kg
- **Acute dermal toxicity**: LD50 (Rabbit): 5,000 mg/kg

### Fatty acids, tall-oil, reaction products with diethylenetriamine:

- **Acute oral toxicity**: Assessment: The component/mixture is moderately toxic after single ingestion.

### Skin corrosion/irritation

Not classified based on available information.

### Product:

**Remarks**: May cause skin irritation and/or dermatitis.

### Components:

- **xylene**:
  - **Result**: Skin irritation
Result: Causes burns.

**Serious eye damage/eye irritation**
Not classified based on available information.

**Product:**
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:**
**Fatty acids, tall-oil, reaction products with diethylenetriamine:**
Result: No eye irritation

**Respiratory or skin sensitisation**
**Skin sensitisation**
Not classified based on available information.

**Respiratory sensitisation**
Not classified based on available information.

**Components:**
**Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether:**
Result: May cause sensitisation by skin contact.

**Germ cell mutagenicity**
Not classified based on available information.

**Components:**
**Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:**
Germ cell mutagenicity- : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)
Assessment

**Carcinogenicity**
Not classified based on available information.

**Components:**
**Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:**
Carcinogenicity - : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)
Assessment

**Reproductive toxicity**
Not classified based on available information.
Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

STOT - single exposure
Not classified based on available information.

Components:
solvent naphtha (petroleum), light arom.:  
Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:  
Assessment: May cause drowsiness or dizziness.

n-butyl acetate:  
Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Components:
Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:  
Assessment: Causes damage to organs through prolonged or repeated exposure.

Fatty acids, tall-oil, reaction products with diethylenetriamine:  
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity
Not classified based on available information.

Components:
solvent naphtha (petroleum), light arom.:  
May be fatal if swallowed and enters airways.

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:  
May be fatal if swallowed and enters airways.

Further information
Product:  
Remarks: No data available

Components:
zinc oxide:
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:
solvent naphtha (petroleum), light arom.:
Ecotoxicology Assessment
Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha:
Ecotoxicology Assessment
Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether:
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.

Fatty acids, tall-oil, reaction products with diethylenetriamine:
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.

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Components:
n-butyl acetate:
Partition coefficient: n-octanol/water : log Pow: 2.3
12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment

**Product:**
**Assessment:**
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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.

**Components:**
**zinc oxide:**
**Additional ecological information:**
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very 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.
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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according to Regulation (EC) No. 1907/2006

Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

Version 4.1  
Revision Date: 17.12.2018  
SDS Number: 102000000134  
Print Date: 24.12.2018  
Date of first issue: 11.03.2014

SECTION 14: Transport information

14.1 UN number

ADR : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

ADR : AEROSOLS
IMDG : AEROSOLS
IATA : Aerosols, flammable

14.3 Transport hazard class(es)

ADR : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADR
Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)

IMDG
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U

IATA (Cargo)
Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable gas

IATA (Passenger)
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable gas

14.5 Environmental hazards

ADR
Environmentally hazardous : no

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

Sample Agent Micaceous iron ore anthracite
14-09017 750 ml

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Print Date:</th>
<th>Date of first issue:</th>
</tr>
</thead>
</table>

Marine pollutant : no

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).
: Not applicable

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements
H220 : Extremely flammable gas.
H225 : Highly flammable liquid and vapour.
H262 : 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.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H332 : 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.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations
Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

**Sample Agent Micaceous iron ore anthracite**  
14-09017 750 ml

<table>
<thead>
<tr>
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<th>SDS Number:</th>
<th>Print Date:</th>
<th>Date of first issue:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Technical Name/Other Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Gas</td>
<td>Flammable gases</td>
</tr>
<tr>
<td>Flam. Liq.</td>
<td>Flammable liquids</td>
</tr>
<tr>
<td>Press. Gas</td>
<td>Gases under pressure</td>
</tr>
<tr>
<td>Skin Corr.</td>
<td>Skin corrosion</td>
</tr>
<tr>
<td>Skin Irrit.</td>
<td>Skin irritation</td>
</tr>
<tr>
<td>Skin Sens.</td>
<td>Skin sensitisation</td>
</tr>
<tr>
<td>STOT RE</td>
<td>Specific target organ toxicity - repeated exposure</td>
</tr>
<tr>
<td>STOT SE</td>
<td>Specific target organ toxicity - single exposure</td>
</tr>
</tbody>
</table>

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 BAT : UK. Biological monitoring guidance values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)  

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative
Further information
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.

GB / EN