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

1.1 Product identifier
   Trade name : MIRAGE Copper
   Trade name : 021663ML0

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
   (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)
   Not a dangerous substance according to GHS.
   Classification (67/548/EEC, 1999/45/EC)
   Not a hazardous substance or mixture.

2.2 Label elements
   Labelling (REGULATION (EC) No 1272/2008)
   Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).
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.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components
Remarks : No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures
General advice : No hazards which require special first aid measures.
If inhaled : If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
In case of skin contact : Wash off with soap and water.
In case of eye contact : Remove contact lenses.
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 : This information is not available.
Unsuitable extinguishing media : This information is not available.
5.2 Special hazards arising from the substance or mixture
   This information is not available.

5.3 Advice for firefighters
   Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.
   Further information: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   Personal precautions: Avoid dust formation.

6.2 Environmental precautions
   This information is not available.

6.3 Methods and material for containment and cleaning up
   Methods for cleaning up: Pick up and arrange disposal without creating dust.
   Sweep up and shovel.
   Keep in suitable, closed containers for disposal.

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: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
   Advice on protection against fire and explosion: Normal measures for preventive fire protection.
   Hygiene measures: General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities
   Requirements for storage areas and containers: Electrical installations / working materials must comply with the technological safety standards.
   Advice on common storage: No materials to be especially mentioned.
   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

**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>
<tbody>
<tr>
<td>diiron trioxide</td>
<td>1309-37-1, 1309-37-1</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</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>
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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.

<table>
<thead>
<tr>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA (Respirable)</td>
<td>4 mg/m³</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls

**Personal protective equipment**

- **Eye protection**: Safety glasses
- **Hand protection**: This information is not available.
- **Skin and body protection**: Protective suit
- **Respiratory protection**: This information is not available.
- **Environmental exposure controls**: This information is not available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Appearance**: solid
- **Colour**: copper
- **Odour**: characteristic
- **Odour Threshold**: No data available
- **pH**: No data available
- **Freezing point**: No data available
- **Boiling point/boiling range**: No data available
- **Flash point**: No data available
- **Evaporation rate**: 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

<table>
<thead>
<tr>
<th>Hazardous reactions</th>
<th>Stable under recommended storage conditions.</th>
</tr>
</thead>
</table>

#### 10.4 Conditions to avoid

<table>
<thead>
<tr>
<th>Conditions to avoid</th>
<th>No data available</th>
</tr>
</thead>
</table>

#### 10.5 Incompatible materials

<table>
<thead>
<tr>
<th>Materials to avoid</th>
<th>This information is not available.</th>
</tr>
</thead>
</table>

#### 10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>Contact with water or humid air</th>
<th>This information is not available.</th>
</tr>
</thead>
</table>

| Thermal decomposition | This information is not available. |
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Further information

Product:  
Remarks: No data available

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

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: Remarks: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.
SECTİON 14: Transport information

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user
Remarks: Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

SECTİON 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
This information is not available.

SECTİON 16: Other 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.