Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Trade name: Copper Brown KT-6080

Relevant identified uses of the substance or mixture and uses advised against: colouring agent

Uses advised against: not known

Details of the supplier of the safety data sheet:

Manufacturer:

2. HAZARD IDENTIFICATION

Classification of the substance or mixture


Additional information: not available

Label elements

GHS label elements: not applicable

Hazard pictogram(s): not applicable

Signal word(s): not applicable

Hazard statement(s): not applicable

Precautionary statement(s): not applicable

Other hazards: not known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family: mica - iron oxide. Contains no hazardous ingredients

<table>
<thead>
<tr>
<th>Common chemical name</th>
<th>CAS No.</th>
<th>EINECS No.</th>
<th>Colour Index</th>
<th>Chemical composition</th>
<th>Hazard classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mica</td>
<td>12001-26-2</td>
<td>310-127-6</td>
<td>77019</td>
<td>59-63</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES
Description of first aid measures
Inhalation: in case of accident by inhalation  : remove causality to fresh air and keep at rest
Skin contact  : wash affected skin with plenty of water
Eye contact  : if contact with eyes directly, flush with gently flowing fresh water thoroughly; If eye irritation persists, get medical advice/attention
Ingestion  : if ingested, wash out mouth with water, drink milk or egg white
Notes to physician  : no special measures are required

Most important systems and effects,
Both acute and delayed
Actue  : none
Long term (repeated)  : may cause irritation to the respiratory system. Cough. Increased difficulty in breathing

Indication of immediate medical attention and special treatment needed
Recommended  : a. Chest XRay
               : b. Lung functionality tests

5. FIREFIGHTING MEASURES

Extinguishing media
Suitable extinguishing media  : extinguish with waterspray, foam or dry chemical
Unsuitable extinguishing media  : carbon dioxide

Special hazards arising from the substance or mixture
Thermal hazards  : noncombustible. None anticipated
Advice for firefighters  : fire fighters should wear complete protective clothing including self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emgergency procedures
Personal precautions  : do not breathe dust
Personal protection equipment  : wear appropriate personal protective equipment, avoid direct contact
In case of emergency  : a self contained breathing apparatus and suitable protective clothing should be worn in fire conditions
Environmental precautions  : do not allow to enter drains, sewers or watercourses

Containment and cleaning up  : collect mechanically and dispose of according to Section 13. Use vacuum equipment for collecting spilt materials, where practicable

Reference to other sections  : see sections 8 and 13

7. HANDLING AND STORAGE
Precautions for safe handling: avoid breathing dust
Conditions for safe storage: include any incompatibilities: keep container in a well-ventilated place
Specific end use(s): not known

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures
Exposure limit values: not known

Exposure controls
Appropriate engineering controls: provide adequate ventilation to ensure that the occupational exposure limit is not exceeded. Isolate the dispersive process step away from other operations. This can be achieved by local exhaust ventilation or general ventilation
Individual protections measures, such as personal protective equipment (PPE)
Hand/eye/face protection: wear gloves, eye protection and an approved dust mask if dust is generated during handling. Goggles giving complete protection to eyes. Dust mask covering nose and mouth
Skin protection: a apron or other light protective clothing, boots and plastic or synthetic rubber gloves
Respiratory protection: dust mask covering nose and mouth
Thermal hazards: none
Environmental exposure controls: avoid dust generation. Avoid accumulation of dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: powder
Colour: Copper Brown
Odour: odourless
pH: 6.0-9.0 (4% H₂O)
Boiling point, °C: not applicable
Melting point, °C: decomposes
Freezing point, °C: not applicable
Density: 3.0-3.1 kg/L
Bulk density: 16-20 g/100g
Vapour pressure: not applicable
Solubility (in water): insoluble
Particle size: 10-60µm

10. STABILITY AND REACTIVITY

Reactivity: there may be violent or incandescent reaction of the product with metals at high
temperatures (e.g., aluminium; calcium; magnesium; potassium; sodium; zinc; lithium)

Chemical stability: stable under normal conditions
Possibility of hazardous reactions: none
Conditions to avoid: high temperature
Incompatible materials: strongly acidic, strongly alkaline, oxidizing agents
Decomposition products: no information available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
This inorganic pigment in general is considered to be practically nontoxic.
Acute toxicity: not available
Carcinogenicity: not available

12. ECOLOGICAL INFORMATION

Toxicity: no data
Persistence and degradability: insoluble in water. This product is predicted not to degrade in soil and water
Bioaccumulative potential: no data
Mobility in soil: not applicable
Results of PBT and vPvB assessment: not applicable
Other adverse effects: not known

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: dispose of contents in accordance with local, state or national legislation

14. TRANSPORT INFORMATION

Not classed as dangerous for transport.

<table>
<thead>
<tr>
<th>International Transport Regulations</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper shipping name</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL73/78 and The IBC Code</td>
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<td>Not applicable</td>
<td>Not applicable</td>
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</tr>
</tbody>
</table>

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<table>
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<tr>
<th>Hazard label(s)</th>
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<tbody>
<tr>
<td>Additional information</td>
<td>Custom tariff No. 32061900</td>
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</tbody>
</table>

**15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislations specific for the substance or mixture: not available

**16. OTHER INFORMATION**

Annex to the extended Safety Data Sheet (eSDS)
ADR: European Agreement concerning international carriage of Dangerous goods by Road
CAS: Chemical Abstracts Service
EC: European Community
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association

**DATA SOURCES**

Book on “Safe Handling of Pigments”, European Edition 1995, BCMA, EPSOM ETAD, VdMi
HSDB
NIOSH ICSC
Hazardous Substance Fact Sheet, New Jersey Department of Health and Senior Service

We have described our product concerning possible safety requirements by the abovementioned information given to the best of our knowledge and experience. All data given are never meant to guarantee any quality description nor product properties.