1. Product and Company Identification

Use: Colorants for art and industrial use

Company
Aardvark Colors
245 Kent Ave
Brooklyn, NY 11249, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300

2. Hazards Identification

Emergency overview

CAUTION:
PROLONGED OR REPEATED EXPOSURE TO DUST MAY CAUSE PULMONARY PROBLEMS.

State of matter: solid
Colour: brown
Odour: odourless

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Irritation / corrosion:
Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties. Contact with the eyes or skin may cause mechanical irritation.

Chronic toxicity:

Repeated dose toxicity: Prolonged or repeated exposure may cause pulmonary problems.

Potential environmental effects

Aquatic toxicity:
At the present state of knowledge, no negative ecological effects are expected.
3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>12001-26-2</td>
<td>45.0 - 86.0 %</td>
<td>Mica-group minerals</td>
</tr>
<tr>
<td>1309-37-1</td>
<td>14.0 - 55.0 %</td>
<td>Iron oxide</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

**General advice:**
Remove contaminated clothing.

**If inhaled:**
If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**
Wash thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**
Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek immediate medical attention.

**If swallowed:**
Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

**Note to physician**
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

**Autoignition:** not applicable
**Flammability:** does not ignite

**Suitable extinguishing media:**
dry powder, foam

**Unsuitable extinguishing media for safety reasons:**
carbon dioxide

**Hazards during fire-fighting:**
No particular hazards known.

**Protective equipment for fire-fighting:**
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

If exposed to fire, keep containers cool by spraying with water.

6. Accidental release measures

**Personal precautions:**
Avoid dust formation. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.
Environmental precautions:
Do not empty into drains.

This product is not regulated by RCRA. This product is not regulated by CERCLA ("Superfund").

Cleanup:
For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Pick up with suitable appliance and dispose of.

Spills should be contained and placed in suitable containers for disposal.

7. Handling and Storage

Handling
General advice:
Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid contact with the skin, eyes and clothing.

Avoid dust formation. Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:
No special precautions necessary.

See MSDS section 5 - Fire fighting measures. Prevent electrostatic charge accumulation.

Storage
General advice:
Keep in a cool place. Keep container dry.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>PEL</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron oxide</td>
<td></td>
<td>10 mg/m3 fumes/smoke</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mica-group minerals</td>
<td>OSHA</td>
<td>TWA value 5 mg/m3 Respirable fraction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>TWA value 20 millions of particles per cubic foot of air</td>
<td></td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection:
Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Safety glasses with side-shields.

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Hands and/or face should be washed before breaks and at the end of the shift. Wash soiled clothing immediately.
9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>powder</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Colour</td>
<td>brown</td>
</tr>
<tr>
<td>pH value</td>
<td>6.0 - 11.0</td>
</tr>
<tr>
<td>Melting point</td>
<td>The substance / product decomposes.</td>
</tr>
<tr>
<td>Density</td>
<td>3.2 kg/l</td>
</tr>
<tr>
<td>Relative density</td>
<td>3.2</td>
</tr>
<tr>
<td>Bulk density</td>
<td>146 kg/m3</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>insoluble</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

**Hazardous reactions:**
No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.
Hazardous polymerization will not occur.

**Decomposition products:**
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

**Thermal decomposition:**
No data available.

**Corrosion to metals:**
No corrosive effect on metal.

11. Toxicological Information

**Acute toxicity**

**Oral:**
Type of value: LD50
Species: rat
Value: > 2,000 mg/kg
The product has not been tested. The statement has been derived from the properties of the individual components.

**Irritation / corrosion**

**Skin:**
May cause mechanical irritation.

**Eye:**
May cause mechanical irritation.

12. Ecological Information

**Degradability / Persistence**

**Biological / Abiological Degradation**

Evaluation: Not readily biodegradable (by OECD criteria).
The colourant is insoluble in water and can thus be separated from water.
mechanically in suitable effluent treatment plant

Other adverse effects:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

13. Disposal considerations

Waste disposal of substance:
Dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:
Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport
USDOT
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations
Registration status: Chemical TSCA, US released / listed
OSHA hazard category: OSHA PEL established; ACGIH TLV established
EPCRA 311/312 (Hazard categories): Acute;

State regulations

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<tr>
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16. Other Information

**HMIS III rating**
Health: 1  Flammability: 0  Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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