Non-hazardous material safety data sheet for

Chrome Sand

This generic SDS is provided by LKAB Minerals to give information to assist with material handling of the products listed which are not classified as hazardous under the GHS and / or the CLP regulations.

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

1.1 Product identifier
   Product name: Chromite Sand
   Synonyms: Chromite, Chromite Sand, Chrome Flour
   REACH registration number: Exempt
   CAS number: 98072-82-3
   EC number: 308-539-6

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified uses: Refractory / Foundry material

1.3 Details of the supplier of the safety data sheet
   LKAB Minerals Ltd, Flixborough Industrial Estate, Flixborough, North Lincolnshire DN15 8SF UK
   sds@lkabminerals.com

1.4 Emergency telephone number of supplier
   LKAB Minerals AB (Sweden) +46 771 760 400
   LKAB Minerals Asia Pacific Ltd (Hong Kong) +852 2827 3000
   LKAB Minerals BV (Netherlands) +31 168 388500
   LKAB Minerals Inc (USA) +1 513 322 5530
   LKAB Minerals GmbH (Germany) +49 201 45060
   LKAB Minerals Ltd (United Kingdom) +44 1724 277411 or +44 1332 673131
   LKAB Minerals Oy (Finland) +358 17 2606160
   LKAB Minerals Tianjin (China) +86 22 2435 1706
   Hours of operation: 09.00 – 16.00 (local business hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification (EC 1272/2008):
   Physical and chemical hazards: not classified
   Human health: not classified
   Environment: not classified

   The full text for all R-phrases and hazard statements are displayed in section 16.

2.2 Label elements
   EC No: 308-539-6
   Label in accordance with (EC) No. 1272/2008 No pictogram required.

2.3 Other hazards
   This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Product / ingredient name</th>
<th>%</th>
<th>CAS No</th>
<th>EC No</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome</td>
<td>90 – 100</td>
<td>98072-82-3</td>
<td>308-539-6</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

The full text for all R phrases and hazard statements are displayed in section 16.

REACH Registration number: Exempt
SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion: Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Skin contact: Wash skin with soap and water. Get medical attention if irritation persists after washing.
Eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No specific symptoms noted.
Ingestion: No specific symptoms noted.
Skin contact: No specific symptoms noted.
Eye contact: No specific symptoms noted.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Fire fighting measures

5.1 Extinguishing media

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: None under normal conditions

5.3 Advice for firefighters

Special fire fighting procedures: No specific fire-fighting procedures given

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet

6.2 Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Transfer to a container for disposal.

6.4 Reference to other sections

For personal protection see section 8. For waste disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid handling which leads to dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimise the risk of inhalation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3 Specific end use(s)

The identified uses for this product are detailed in section 1.2
**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

<table>
<thead>
<tr>
<th>Country</th>
<th>Name</th>
<th>STD</th>
<th>TWA -8Hrs</th>
<th>STEL - 15Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estonia</td>
<td>Chrome Oxide</td>
<td></td>
<td>0.02 mg/m³</td>
<td>0.06 mg/m³</td>
<td>C, S, arvutatud Cr</td>
</tr>
<tr>
<td>Russia</td>
<td>Chrome Oxide</td>
<td>ПДК</td>
<td>10.0 mg/m³</td>
<td></td>
<td>3, ОБУВ</td>
</tr>
<tr>
<td>UK</td>
<td>Chrome Oxide</td>
<td>WEL</td>
<td>0.5 mg/m³</td>
<td></td>
<td>as Cr</td>
</tr>
</tbody>
</table>

C = Kantserogeensed ained.  
S = Sensibiliseerivad ained.  
ПДК = Величина  
3 = класс – опасные  
ОБУВ = Ориентировочные безопасные уровни воздействия  
WEL = Workplace exposure limit  

**NOTE: To request language / country specific SDS please e-mail sds@lkabminerals.com**

**8.2 Exposure controls**

*Protective equipment*

- **Engineering measures:** Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.
- **Respiratory equipment:** No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Wear dust masks in dusty areas.
- **Hand protection:** No specific hand protection noted, but gloves may still be advisable.
- **Eye protection:** Wear dust resistant safety goggles where this is a danger of eye contact.
- **Other protection:** Provide eyewash station.
- **Hygiene measures:** Wash hands at the end of each work shift and before eating, smoking and using the toilet.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic and physical and chemical properties**

- **Appearance:** Sand, powder, dust  
- **Colour:** Black  
- **Odour:** Odourless  
- **Solubility:** Insoluble in water  
- **Melting point (°C):** 2200

**9.2 Other information**

- **Not relevant**

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No specific reactivity hazards associated with this product.

**10.2 Chemical stability**

Stable under normal temperature conditions.

**10.3 Possibility of hazardous reactions**

Not relevant

**10.4 Conditions to avoid**

No specific conditions are likely to result in a hazardous situation

**10.5 Incompatible materials**

Materials to avoid: No specific, or groups of materials, are likely to react to produce a hazardous situation.

**10.6 Hazardous decomposition products**

None under normal circumstances
## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other health effects:</td>
<td>This substance has no evidence of carcinogenic properties.</td>
</tr>
<tr>
<td>Acute toxicity</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity (Oral LD50):</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Acute toxicity (Dermal LD50):</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Acute toxicity (Inhalation LC50):</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Inhalation:</td>
<td>Dust in high concentrations may irritate the respiratory system.</td>
</tr>
<tr>
<td>Ingestion:</td>
<td>May cause discomfort if swallowed.</td>
</tr>
<tr>
<td>Skin contact:</td>
<td>Powder may irritate skin.</td>
</tr>
<tr>
<td>Eye contact:</td>
<td>Particles in the eyes may cause irritation and smarting.</td>
</tr>
</tbody>
</table>

## SECTION 12: Ecological information

### 12.1 Acute fish toxicity:

Not considered toxic to fish.

### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Degradability:</th>
<th>The product is not readily biodegradable.</th>
</tr>
</thead>
</table>

### 12.3 Bioaccumulative potential:

The product is not bioaccumulating.

### 12.4 Mobility in soil:

Not relevant, due to the form of the product.

### 12.5 Results of PBT and vPvB assessment:

This product does not contain any PBT or vPvB substances.

### 12.6 Other adverse effects:

None known

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: Transport considerations

### 14.1 UN Number:

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.2 UN proper shipping name:

Not classified for transportation.

### 14.3 Transport and hazard class(es):

Not classified for transportation.

### 14.4 Packing group:

Not classified for transportation.

### 14.5 Environmental hazards

Environmentally hazardous substances / marine pollutant: no

### 14.6 Special precautions for user:

Not classified for transportation.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

Approved code of practice: Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.

Guidance notes: Workplace Exposure Limits EH40.


15.2 Chemical Safety Assessment: Not applicable. No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date: 01/03/2017
Revision: 2
Document no: 12-02EN,17-03
Risk phrases in full: NC – not classified

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