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

### 1.1 Product identifier

**Trade name**

Graphit crucibles

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

chemical analysis

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

ELTRA GmbH

Retsch-Allee 1-5

42781 Haan

GERMANY

Telephone no. +49 (0) 2104 23 33-400

Fax no. +49 (0) 2104 23 33-499

**Information provided by / telephone**

+49 (0) 2104 23 33-192

**Advice on Safety Data Sheet**

info@eltra.com

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

### 2.2 Label elements

Not relevant

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

**Hazardous ingredients**

This product does not contain substances to be mentioned according to EU Regulation No 1907/2006 (REACH), annex II.

### 3.3 Other information

This product is an article in the sense of article 3 of the European Chemicals Regulation (REACH) 1907/2006/EC and therefore not subject to the labelling obligations according to the EU regulation 1272/2008 (CLP). Submission of a safety data sheet is not mandatory for articles and is done on a voluntary basis.
4.1 Description of first aid measures
   General information
   In case of persisting adverse effects, consult a physician.
   After inhalation
   No data available.
   After skin contact
   When in contact with the skin, clean with soap and water.
   After eye contact
   Separate eyelids, wash the eyes thoroughly with water (15 min.).
   After ingestion
   Get medical attention if pain still persists.

4.2 Most important symptoms and effects, both acute and delayed
   No data available.

4.3 Indication of any immediate medical attention and special treatment needed
   Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media
   Suitable extinguishing media
   Extinguishing measures to suit surroundings. Water; Carbon dioxide; Sand
   Unsuitable extinguishing media
   No data available.

5.2 Special hazards arising from the substance or mixture
   None known.

5.3 Advice for firefighters
   Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   For non-emergency personnel
   Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.
   For emergency responders
   No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions
   No special measures necessary.

6.3 Methods and material for containment and cleaning up
   Take up mechanically. Send in suitable containers for recovery or disposal.

6.4 Reference to other sections
   No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
   Advice on safe handling
   Provide exhaust ventilation if dust is formed. No special measures necessary if used correctly.
   General protective and hygiene measures
   Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.
   Advice on protection against fire and explosion
   No special measures necessary.
7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep container tightly closed and dry in a cool, well-ventilated place. Protect from atmospheric moisture and water.

Requirements for storage rooms and vessels
Always keep in containers of same material as the original.

7.3 Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
No parameters available for monitoring.

8.2 Exposure controls

Appropriate engineering controls
No data available.

Personal protective equipment

Respiratory protection
If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection
Safety glasses with side protection shield (EN 166)

Hand protection
Not necessary, if processed under regular conditions.

Other
Normal chemical work clothing.

Environmental exposure controls
No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Form/Colour</th>
<th>solid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>grey to black</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Odour</th>
<th>odourless</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Odour threshold</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>pH value</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Boiling point / boiling range</th>
<th>4827 °C</th>
<th>8720 °F</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Melting point / melting range</th>
<th>3652 °C</th>
<th>6605 °F</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Decomposition point / decomposition range</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Flash point</th>
<th>Not applicable</th>
</tr>
</thead>
</table>
### Auto-ignition temperature
No data available

### Oxidising properties
No data available

### Explosive properties
No data available

### Flammability (solid, gas)
No data available

### Lower flammability or explosive limits
No data available

### Upper flammability or explosive limits
No data available

### Vapour pressure
No data available

### Vapour density
<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
</tr>
</tbody>
</table>

### Evaporation rate
No data available

### Relative density
No data available

### Density
<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0 - 2.5 g/cm³</td>
</tr>
</tbody>
</table>

### Solubility in water

<table>
<thead>
<tr>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>insoluble</td>
</tr>
</tbody>
</table>

### Solubility(ies)
No data available

### Partition coefficient: n-octanol/water
No data available

### Viscosity
No data available

### Other information
No data available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity
No data available.

#### 10.2 Chemical stability
Stable if stored and handled properly.

#### 10.3 Possibility of hazardous reactions
No data available.

#### 10.4 Conditions to avoid
None, if handled according to intended use.

#### 10.5 Incompatible materials
No data available.

#### 10.6 Hazardous decomposition products
Carbon monoxide and carbon dioxide
SECTION 11: Toxicological information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicological effect</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute inhalational toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproduction toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available</td>
</tr>
<tr>
<td>Symptoms related to the physical, chemical and toxicological characteristics</td>
<td>Eye contact may cause mechanical irritation through dust particles.</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to fish (acute)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to fish (chronic)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to Daphnia (acute)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to Daphnia (chronic)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to algae (acute)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to algae (chronic)</td>
<td>No data available</td>
</tr>
<tr>
<td>Bacteria toxicity</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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
No data available.

12.6 Other adverse effects
No data available.

12.7 Other information

<table>
<thead>
<tr>
<th>Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not discharge product unmonitored into the environment.</td>
</tr>
<tr>
<td>Ecological data are not available.</td>
</tr>
</tbody>
</table>

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in accordance with the regional waste disposal company.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN
The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG
The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA
The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information
No data available.

14.5 Environmental hazards
Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user
No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not relevant

SECTION 15: Regulatory information

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

<table>
<thead>
<tr>
<th>EU regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)</td>
</tr>
</tbody>
</table>

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.
**Trade name:** Graphit crucibles

**Current version:** 2.0.1, issued: 31.01.2020  
**Replaced version:** 2.0.0, issued: 22.08.2018  
**Region:** GB

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**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.


According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

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### 15.2 Chemical safety assessment

No data available.

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**SECTION 16: Other information**

**Further information**
- Article no. 90180, 100 pcs.
- Article no. 90185, 50 pcs.
- Article no. 90190, 400 pcs.
- Article no. 90192, xxl crucible, 100 pcs.

**Sources of key data used to compile the data sheet:**
- National Threshold Limit Values of the corresponding countries as amended in each case.
- Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Department issuing safety data sheet**
UMCO GmbH
Georg-Wilhelm-Str. 187, D-21107 Hamburg
Tel.: +49 40 / 555 546 300  Fax: +49 40 / 555 546 357  e-mail: umco@umco.de

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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**Prod-ID** 640115