**SAFETY DATA SHEET**

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

**Product identifier**

| Trade name or designation of the mixture | SERV 30 DC |
| Registration number | - |
| Synonyms | None. |
| Brand Code | 9348 |
| Date of first issue | 01-February-2012 |
| Version number | 01 |
| Revision date | - |
| Supersedes date | - |

**Relevant identified uses of the substance or mixture and uses advised against**

| Identified uses | Not available. |
| Uses advised against | None known. |

**Details of the supplier of the safety data sheet**

| Manufacturer/Supplier |
| Company name | ANH Refractories Company |
| Address | 400 Fairway Drive<br>Moon Township, PA 15108, USA<br>United States |
| Telephone | General Phone: 412-375-6600<br>CHEMTREC 24 HOUR EMERGENCY # 1-800-424-9300<br>INTERATIONAL # 1-703-527-3887 |
| e-mail | REACH@anhrefractories.com |

**Emergency telephone number**

| Not available. |

### Section 2: Hazards identification

**Classification of the substance or mixture**

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

**Classification according to Directive 67/548/EEC or 1999/45/EC as amended**

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

**Classification according to Regulation (EC) No 1272/2008 as amended**

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Hazard summary**

| Physical hazards | Not classified for physical hazards. |
| Health hazards | Not classified for health hazards. |
| Environmental hazards | Not classified for hazards to the environment. |
| Specific hazards | For additional information on inhalation hazards, see Section 11 of this safety data sheet. |
| Main symptoms | Not available. |

**Label elements**

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Hazard statements**

| The mixture does not meet the criteria for classification. |

**Precautionary statements**

| Prevention | Not available. |
| Response | Not available. |
| Storage | Not available. |
| Disposal | Not available. |
Section 3: Composition/information on ingredients

Mixture

General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>INDEX No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium (III) oxide</td>
<td>20 - &lt; 30</td>
<td>1308-38-9</td>
<td>-</td>
<td>-</td>
<td>#</td>
</tr>
<tr>
<td></td>
<td></td>
<td>215-160-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>DSD: -</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLP: -</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Non-hazardous ingredients < 0,1

Classification: DSD: -

CLP: -

Other components below reportable levels


DSD: Directive 67/548/EEC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#: This substance has been assigned Community workplace exposure limit(s).

Composition comments Not available.

Section 4: First aid measures

General information Not available.

Description of first aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

Most important symptoms and effects, both acute and delayed Not available.

Indication of any immediate medical attention and special treatment needed Not available.

Section 5: Firefighting measures

General fire hazards Not available.

Extinguishing media

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media Not available.

Special hazards arising from the substance or mixture Not available.

Advice for firefighters

Special protective equipment for firefighters Not available.

Special firefighting procedures Not available.
Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.

For emergency responders
Not available.

Environmental precautions
No special environmental precautions required.

Methods and material for containment and cleaning up
If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.

Reference to other sections
For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

Precautions for safe handling
Avoid dust formation. Do not breathe dust from this material. In case of insufficient ventilation, wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed. Guard against dust accumulation of this material. Avoid contact with skin and eyes. Avoid prolonged exposure. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed. Avoid dust formation. Guard against dust accumulation of this material.

Specific end use(s)
Not available.

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALUMINIUM OXIDE (1344-28-1)</td>
<td>VME</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Chromium (III) oxide (1308-38-9)</td>
<td>VME</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium (III) oxide (1308-38-9)</td>
<td>TWA</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values

EU
No biological exposure limits noted for the ingredient(s).

France
No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures
Follow standard monitoring procedures.

DNEL
Not available.

PNEC
Not available.

Exposure controls

Appropriate engineering controls
Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

General information
Not available.

Eye/face protection
Use tight fitting goggles if dust is generated.

Skin protection
- Hand protection
Not normally needed.
- Other
Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
**Respiratory protection**
Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**Thermal hazards**
Not available.

**Hygiene measures**
Do not breathe dust. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls**
Not available.

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**Section 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

- **Appearance**: Powder.
- **Physical state**: Solid.
- **Form**: Powder.
- **Colour**: Not available.
- **Odour**: Not available.
- **Odour threshold**: Not available.
- **pH**: Not applicable.
- **Melting point/freezing point**: Not available.
- **Boiling point, initial boiling point, and boiling range**: Not available.
- **Flash point**: Not applicable.
- **Auto-ignition temperature**: Not applicable.
- **Flammability (solid, gas)**: Not available.
- **Flammability limit - lower (%)**: Not available.
- **Flammability limit - upper (%)**: Not available.
- **Oxidising properties**: Not applicable.
- **Explosive properties**: Not applicable.
- **Explosive limit**: Not applicable.
- **Vapour pressure**: Not applicable.
- **Vapour density**: Not applicable.
- **Evaporation rate**: Not applicable.
- **Relative density**: Not available.
- **Solubility (water)**: Not available.
- **Partition coefficient (n-octanol/water)**: Not available.
- **Decomposition temperature**: Not available.
- **Bulk density**: Not applicable.
- **Pour point**: Not applicable.
- **Viscosity**: Not available.
- **Viscosity temperature**: Not available.
- **VOC (Weight %)**: Not available.
- **Percent volatile**: Not available.
- **Other information**: No relevant additional information available.

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**Section 10: Stability and reactivity**

**Reactivity**
None known.

**Chemical stability**
Material is stable under normal conditions.

**Possibility of hazardous reactions**
Not available.

**Conditions to avoid**
Avoid spread of dust.

**Incompatible materials**
Acids. Chlorine.
Section 11: Toxicological information

General information
No dangerous reaction known under conditions of normal use.

Information on likely routes of exposure

Inhalation
Inhalation of dusts may cause respiratory irritation.

Skin contact
Not available.

Eye contact
Not available.

Symptoms
Not available.

Information on toxicological effects

Acute toxicity
Not available.

Skin corrosion/irritation
Not available.

Serious eye damage/eye irritation
Dust in the eyes will cause irritation.

Respiratory sensitisation
Not available.

Skin sensitisation
Not available.

Germ cell mutagenicity
Not available.

Carcinogenicity
Not available.

IARC Monographs. Overall Evaluation of Carcinogenicity
Chromium (III) oxide (CAS 1308-38-9) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity
Not available.

Specific target organ toxicity - single exposure
Not available.

Specific target organ toxicity - repeated exposure
Not available.

Aspiration hazard
Not available.

Mixture versus substance information
Not available.

Other information
This product has no known adverse effect on human health.

Section 12: Ecological information

Toxicity
No toxicity data noted for the ingredient(s).

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
Not available.

Mobility
Not available.

Environmental fate - Partition coefficient
Not available.

Mobility in soil
Not available.

Results of PBT and vPvB assessment
Not available.

Other adverse effects
Not available.

Section 13: Disposal considerations

Waste treatment methods

Residual waste
As sold, this product is not RCRA hazardous. Final used condition must be evaluated prior to disposal. Dispose of waste product in accordance with Federal, State and Local regulations. The chrome compounds (Cr III) in this product may be altered to a hexavalent compound (Cr VI) under certain use conditions, such as exposure to alkali salts and/or high temperatures. Proper waste testing (such as TCLP) must be done to determine the waste status of used product. Reuse and recycling of chrome Refractories is recommended whenever possible.

Contaminated packaging
Not available.

EU waste code
Not available.
Disposal methods/information

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Section 14: Transport information

ADR
Not regulated as dangerous goods.

RID
Not regulated as dangerous goods.

ADN
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available.

Section 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I
  Not listed.
- Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II
  Not listed.
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V
  Not listed.
- Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)
  Chromium (III) oxide (CAS 1308-38-9)
  Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Not available.

Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Section 16: Other information

List of abbreviations
Not available.

References
Not available.

Information on evaluation method leading to the classification of mixture
Not available.

Full text of any statements or R-phrases and H-phrases under Sections 2 to 15
None.

Revision information
Not available.

Training information
Not available.

Disclaimer
This information is based on our present knowledge on creation date. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.