

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

### 1.1 Product identifiers

**Product name:** Chromium Oxide Combustion Reagent, OEA  
**Catalogue no:** R11000  
**SDS reference no:** R11000  
**Brand:** OEA Labs  
**EC index no(s):** 215-160-9  
**REACH no:** The annual tonnage does not require registration.  
**CAS no(s):** Cr2O3 [1308-38-9]

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

**Identified uses:** Elemental analysis scientific instrumentation. Primary use as an oxygen donor catalyst in combustion/reaction tubes for nitrogen, carbon, hydrogen, and sulphur configured applications. Not for pharmaceutical, domestic or other uses.

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

**Company name:** OEA Laboratories Limited  
The Generator Quay House  
The Gallery, Kings Wharf  
The Quay, Exeter  
EX2 4AN  
United Kingdom  
**Telephone:** +44 (0)1579 384174  
**Email:** sales@oealabs.com

### 1.4 Emergency telephone number

**Telephone:** +44 (0)1579 384174

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Accute toxicity, oral (Category 5), H302  
Acute toxicity, inhalation (Category 4), H332  
Skin corrosion/irritation (Category 1), H317

### 2.2 Labelling elements according to Regulation (EC) No 1272/2008

**Pictogram(s):**



GHS07      GHS07      GHS07

**Signal word:** Warning

**Hazard statement(s):**

H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.

**Precautionary statement(s):**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P304+P340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container to approved waste disposal company.

Restricted to professional users.

### 2.2 Other hazards

None

## SECTION 3. Composition/information of ingredients

### 3.1 Substances

**Synonyms:** Chromia  
**Formula:** Cr2O3  
**Molecular weight:** 151.99  
**Components:**

Chromium (III) Oxide      Concentration: ~100%

CAS No 1308-38-9, EC No 215-160-9, H302, Accute toxicity, oral, Category 5; H332, Acute toxicity, inhalation, Category 4; H317, Skin corrosion/irritation, Category 1;

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

**General advice:**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If Inhaled:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

**In case of skin contact:**

Wash skin thoroughly. Remove contaminated clothing and wash before re-use. In severe cases obtain medical attention.

**In case of eye contact:**

Irrigate thoroughly with water for at least 10 minutes and seek medical attention.

**If swallowed:**

Never give anything by mouth to an unconscious person. Wash out mouth thoroughly with water. Obtain medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## SECTION 5. Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide that suit the surrounding fire.

**5.2 Special hazards arising from the substance or mixture**

If this product is evolved in a fire, the following can be released: Metal oxide as chromium oxide(s)

**5.3 Advice for firefighters**

Wear self contained breathing apparatus.

**5.4 Further information**

Wear full protective suit.

## SECTION 6. Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Pick up and arrange for disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For safe handling see Section 7. For disposal see Section 13. For personal protection equipment see Section 8.

## SECTION 7. Handling and storage

**7.1 Precautions for safe handling**

Ensure good ventilation of the workplace. Avoid contact with eyes and skin. Avoid formation of dust, vapours and aerosols. Follow normal measures for fire protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep containers tightly sealed. Store in a cool, dry place.

**7.3 Specific end uses**

No further relevant information available.

## SECTION 8. Exposure controls/personal protection

**8.1 Control parameters**

**Components with workplace control parameters:**

Chromium (III) Oxide

CAS No 1308-38-9, TWA, 0.5mg/m<sup>3</sup>, UK, EH40 WEL

**8.2 Exposure controls**

**Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment:**

**Eye/face protection:**

Safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN166.

**Skin protection:**

Handle with gloves to specification EU Directive 89/686/EEC and EN374. Inspect prior to use. Use proper glove removal practice to avoid contact with product. Wash and dry hands.

**Body protection:**

Impervious clothing selected according to the concentration and amount of product at the specific workplace.

**Respiratory protection:**

For nuisance exposures use type P95(US) or P1(EU EN143) particle respirator. For higher levels use type OV/AG/P99(US) or ABEK-P2(EU EN143) respirator cartridges.

**Environmental protection:**

Avoid formation of dust, vapours and aerosols.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form:</b>	Granules
<b>Colour:</b>	Pale to dark green
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point:</b>	2435°C
<b>Boiling point:</b>	3000°C
<b>Flash point:</b>	No data available
<b>Flammability solid/gas:</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Water solubility:</b>	Insoluble
<b>Autoignition temp:</b>	No data available
<b>Decomp temperature:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidising properties:</b>	No data available

### 9.2 Other safety information

No further relevant information available.

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Reacts with strong oxidising agents.

### 10.4 Conditions to avoid

Avoid moisture

### 10.5 Incompatible materials

Oxidising agents.

### 10.6 Hazardous decomposition products

Metal oxides, chromium oxides

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:**

LD50 Oral - rat - >10,000mg/kg

**Skin corrosion/irritation:**

Skin - rabbit - mild skin irritation

**Serious eye damage/eye irritation:**

No data available.

**Respiratory or skin sensitisation:**

No data available.

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity:**

IARC: 3 - Group 3: not classifiable as to its carcinogenicity to humans (chromium (III) oxide)

**Reproductive toxicity:**

No data available.

**Specific target organ toxicity - single exposure:**

No data available.

**Specific target organ toxicity - repeated exposure:**

No data available.

**Aspiration hazard:**

No data available.

**Potential health effects - inhalation:**

May be harmful if inhaled. May cause respiratory tract irritation.

**Potential health effects - ingestion:**

May be harmful if swallowed.

**Potential health effects - skin:**

May be harmful if absorbed through skin. May cause skin irritation

**Potential health effects - eyes:**

Causes eye irritation.

**Signs and symptoms of exposure:**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Additional information:**

RTECS: GB6475000

## SECTION 12. Ecological information

### 12.1 Toxicity

**Toxicity to fish:** No data available.

**Toxicity to daphnia and other aquatic invertebrates:** No data available.

**Toxicity to algae:** No data available.

**Toxicity to bacteria:** No data available.

### 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.

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

**Product:**

Offer surplus and non-recyclable material to a licensed professional waste disposal company.

**Contaminated packaging:**

Dispose of as unused product.

## SECTION 14. Transport information

**14.1 UN number**

ADR/RID/IATA/IMDG: Not dangerous goods.

**14.2 UN proper shipping name**

ADR/RID/IATA/IMDG: Not dangerous goods.

**14.3 Transport hazard class(es)**

ADR/RID/IATA/IMDG: Not dangerous goods.

**14.4 Packaging group**

ADR/RID/IATA/IMDG: Not dangerous goods.

**14.5 Environmental hazards**

ADR/RID/IATA/IMDG: Not dangerous goods.

**14.6 Special precautions for user**

No data available.

**14.7 Shipping quantities**

ADR LQ maximum: Not dangerous goods.

ADR EQ code: Not dangerous goods.

ADR EQ IP/pkg: Not dangerous goods.

IATA LQ PInstruction: Not dangerous goods.

IATA LQ IP/pkg: Not dangerous goods.

IATA EQ code: Not dangerous goods.

IATA EQ IP/pkg: Not dangerous goods.

De minimus: Not dangerous goods.

**SECTION 15. Regulatory information**

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

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

No data available.

**15.2 Chemical safety assessment**

No data available.

**SECTION 16 Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. OEA Laboratories Limited shall not be held liable for any damage resulting from the handling or contact with the above product. See [www.oelabs.com](http://www.oelabs.com) for terms and conditions of sale.