

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
 Unit C2 Florence Road Business Park
 Kelly Bray, Callington, Cornwall
 PL17 8EX, United Kingdom

Telephone: +44 (0)1579 384174
Fax: +44 (0)1579 384174
Email: sales@oealabs.com

1.4 Emergency telephone number

Telephone: +44 (0)1579 384174, +44 (0) 1579 350212, +44 (0) 7811 102906

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, Acute 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/m³, 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

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