

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

1.1 Product identifiers

Product name: Nickel Chromium Oxide, granular, 0.85 to 1.7mm, OEA
Catalogue no: R11100
SDS reference no: R11100
Brand: OEA Labs
EC index no(s): Cr2O3[215-160-9] NiO[215-215-7]
REACH no: The annual tonnage does not require registration.
CAS no(s): Cr2O3 [1308-38-9] NiO[1313-99-1]

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

Identified uses: Elemental analysis scientific instrumentation. 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

Specific target organ toxicity, repeated exposure (Category 1), H372
Skin corrosion/irritation (Category 1), H317
Carcinogenicity, inhalation (Category 1A), H350i

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

Pictogram(s):



GHS08

GHS07

GHS08

Signal word: Danger

Hazard statement(s):

H372 Causes damage to organs through prolonged or repeated exposure.
H317 May cause an allergic skin reaction.
H350i May cause cancer by inhalation.

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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P201 Obtain special instructions before use.

Restricted to professional users.

2.2 Other hazards

No data available.

SECTION 3. Composition/information of ingredients

3.1 Substances

Synonyms: Chromia/Nickel(II) oxide/Nickel monoxide
Formula: Cr2O3/NiO
Molecular weight: 151.99/74.69

Components:

Chromium (III) Oxide Concentration: 40 to 60%

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;

Nickel (II) Oxide Concentration: 40 to 60%

CAS No 1313-99-1, EC No 215-215-7, Index No 028-003-00-2, H317, Skin corrosion/irritation, Category 1; H350i, Carcinogenicity, inhalation, Category 1A; H372, Specific target organ toxicity, repeated exposure, 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/nickel 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

Nickel (II) Oxide

CAS No 1313-99-1, 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:	Dark green
Odour:	Odourless
Odour threshold:	No data available
pH:	No data available
Melting point:	No data available
Boiling point:	No data available
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

Strong acids

10.6 Hazardous decomposition products

Metal oxides, chromium oxides, nickel oxides

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - >10,000mg/kg - (chromium(III) oxide & nickel(II) oxide)
LD50 Subcutaneous - rat - 50mg/kg - (nickel(II) oxide)

Skin corrosion/irritation:

Skin - rabbit - mild skin irritation (chromium(III) oxide)

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)

Carcinogenicity - rat - male & female - inhalation (nickel(II) oxide)

Lungs, thorax or respiration: bronchiogenic carcinoma (nickel(II) oxide)

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP or EPA classification.

IARC: 1 - Group 1: Carcinogenic to humans (nickel(II) 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 (chromium(III) oxide), QR8400000 (nickel(II) oxide)

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

Fucus vesiculosus - 21 d - 0.00001mg/l (nickel(II) oxide)

12.4 Bioconcentration factor (BCF): 675 (tested to Annex V of Directive 67/548/EEC) (nickel(II) oxide)

This product may be accumulative in organisms.

Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 PIinstruction: 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.oealabs.com for terms and conditions of sale.