

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

1.1 Product identifiers

Product name: Cobaltous Oxide Sample Additive, OEA

Catalogue no: R51050

SDS reference no: R51050

Brand: OEA Labs

EC index no(s): 215-154-6

REACH no: The annual tonnage does not require registration.

CAS no(s): CoO[1307-96-6]

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
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

Hazardous to the aquatic environment, long term hazard (Category 1), H410

Skin corrosion/irritation (Category 1), H317

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

Pictogram(s):



GHS07



GHS09

GHS07

Signal word: Warning

Hazard statement(s):

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

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.

P273 Avoid release to the environment.

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: Cobalt (II) oxide

Formula: CoO

Molecular weight:

Components:

Cobalt (II) Oxide Concentration: ~100%

CAS No 1307-96-6, EC No 215-154-6, Index No 027-002-00-4, H302, Accute toxicity, oral, Category 5; H317, Skin corrosion/irritation, Category 1; H410, Hazardous to the aquatic environment, long term hazard, 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:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Flush eyes with water as a precaution.

If swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Cobalt/cobalt oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

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. Evacuate personnel to safe area. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Apart from uses mentioned in Section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters:

Cobalt (II) Oxide

CAS No 1307-96-6, TWA, 0.1mg/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 the 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:

Complete suit protection against chemicals. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full face particle respirator type N100(US) or type P3 (EN143) respirators as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN(EU).

Environmental protection:

Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. Discharge into the environment must be avoided.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Powder
Colour:	Dark grey/black
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Melting point:	1935°C
Boiling point:	No data available
Flash point:	Not applicable
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 data 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

No data available

10.4 Conditions to avoid

Avoid moisture

10.5 Incompatible materials

Reducing agents

10.6 Hazardous decomposition products

No data available. In the event of a fire see Section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - >200mg/kg - Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Skin corrosion/irritation:

May cause irritation.

Serious eye damage/eye irritation:

May cause irritation

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

No data available

Carcinogenicity:

IARC-2B. Possible carcinogen.

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:

No data available

Potential health effects - ingestion:

No data available

Potential health effects - skin:

No data available

Potential health effects - eyes:

No data available

Signs and symptoms of exposure:

No data available

Additional information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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 as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Harmful to aquatic life. 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: UN3288



14.2 UN proper shipping name

ADR/RID/IATA/IMDG: TOXIC SOLID, INORGANIC, N.O.S. (Cobalt (II) Oxide)

14.3 Transport hazard class(es)

ADR/RID/IATA/IMDG: 6.1

14.4 Packaging group

ADR/RID/IATA/IMDG: III

14.5 Environmental hazards

ADR/RID/IATA/IMDG: Marine pollutant

14.6 Special precautions for user

14.7 Shipping quantities

ADR LQ maximum:

ADR EQ code:

ADR EQ IP/pkg:

IATA LQ PInstruction:

IATA LQ IP/pkg:

IATA EQ code:

IATA EQ IP/pkg:

De minimus:

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

For this product a chemical safety assessment was not carried out.

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.