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

1.1 Product identifiers
Product name : Chromium (III) Oxide Green
CAS-No. : 1308-38-9

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet
Company : Central Drug House (P) Ltd
7/28 Vardaan House
New Delhi-10002
INDIA
Telephone : +91 11 49404040
Email : care@cdhfinechemical.com

1.4 Emergency telephone number
Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Pictogram : none
Signal word : none
Hazard statement(s) : none
Precautionary statement(s) : none
Supplemental Hazard Statements : none
Safety data sheet available on request.

2.3 Other hazards
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.
SECTION 3: Composition/information on ingredients

3.1 Substances

    Synonyms: Chromia
    Formula: Cr2O3
    Molecular weight: 151.99 g/mol
    CAS-No.: 1308-38-9
    EC-No.: 215-160-9

    Hazardous ingredients according to Regulation (EC) No 1272/2008

    Component | Classification | Concentration
    Chromium (III) oxide
    CAS-No. 1308-38-9 | <= 100 %
    EC-No. 215-160-9

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 (see 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

    Chromium 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 vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.

6.2 **Environmental precautions**
Do not let product enter drains.

6.3 **Methods and materials for containment and cleaning up**
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 **Reference to other sections**
For disposal see section 13.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 **Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Hygroscopic. Handle and store under inert gas.
Storage class (TRGS 510): Non Combustible Solids

7.3 **Specific end use(s)**
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

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 conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Respiratory protection is not required. Where protection from nuisance dust (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 **Information on basic physical and chemical properties**

a) **Appearance**
   Form: powder
   Colour: green

b) **Odour**
   No data available
c) Odour Threshold  No data available

d) pH  No data available

e) Melting point/freezing point  Melting point/freezing point: 2,435 °C

f) Initial boiling point and boiling range  4,000 °C

g) Flash point  Not applicable

h) Evaporation rate  No data available

i) Flammability (solid, gas)  No data available

j) Upper/lower flammability or explosive limits  No data available

k) Vapour pressure  No data available

l) Vapour density  No data available

m) Relative density  5.210 g/cm3

n) Water solubility  insoluble

o) Partition coefficient: n-octanol/water  No data available

p) Auto-ignition temperature  No data available

q) Decomposition temperature  No data available

r) Viscosity  No data available

s) Explosive properties  No data available

t) Oxidizing 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

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Chromium oxides
Other decomposition products - No data available
In the event of fire: see section 5
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
- LD50 Oral - Rat - male - > 15,000 mg/kg (Chromium (III) oxide) (OECD Test Guideline 401)
- LC50 Inhalation - Rat - male and female - 4 h - > 5.41 mg/l (Chromium (III) oxide) (OECD Test Guideline 403)

Skin corrosion/irritation
- Skin - Rabbit (Chromium (III) oxide)
  Result: Mild skin irritation

Serious eye damage/eye irritation
- Eyes - Rabbit (Chromium (III) oxide)
  Result: Mild eye irritation

Respiratory or skin sensitisation
No data available (Chromium (III) oxide)

Germ cell mutagenicity
- OECD Test Guideline 474 (Chromium (III) oxide)
  Mouse - male and female
  Result: negative

Carcinogenicity
- This product is or contains a component that is not classifiable as to its classification (Chromium (III) oxide)
  IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Chromium (III) oxide)

Reproductive toxicity
No data available (Chromium (III) oxide)

Specific target organ toxicity - single exposure
No data available (Chromium (III) oxide)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available (Chromium (III) oxide)

Additional Information
- Repeated dose toxicity - Rat - male and female - No observed adverse effect level - 2,000 mg/kg (Chromium (III) oxide)
- RTECS: GB6475000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated (Chromium (III) oxide)

SECTION 12: Ecological information

12.1 Toxicity
- Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 10,000 mg/l - 96 h (Chromium (III) oxide)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available (Chromium (III) oxide)

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 solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -

14.4 Packaging group
ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only 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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.