# BARIUM CHROMATE

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

| | |
|---|---|
| Product name: | Barium Chromate |
| CAS Number: | 10294-40-3 |
| EC Number: | 233-660-5 |

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

| | |
|---|---|
| Product use: | Laboratory chemicals, Industrial & for professional use only |

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

| | |
|---|---|
| **Company name:** | East Harbour Group Ltd<br>20 Clough Road, Severalls Industrial Park<br>Colchester, Essex, CO4 9QS<br>United Kingdom |
| **Telephone:** | +44 (0) 333 242 0100 |
| **Email:** | info@eastharbourgroup.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| **Emergency telephone:** | 0800 246 1274 |

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Oxidizing solids (Category 2)
Acute toxicity, Inhalation (Category 4)
Acute toxicity, Oral (Category 4)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Contact with combustible material may cause fire. Harmful by inhalation and if swallowed.

## Section 3: Composition/information on ingredients

| Ingredient | CAS No | Percent | Hazardous |
|---|---|---|---|
| Barium Chromate | 10294-40-3 | 98-99% | Yes |

## Section 4: First aid measures

### 4.1 Description of first aid measures

**General advice**

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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**
Dermatitis, Nausea, Vomiting, Dizziness, Convulsions, Muscle cramps/spasms., Irregular breathing, Pulmonary edema. Effects may be delayed., Exposure to chromate salts has been reported to produce skin and nasal ulcerations with continued exposure leading to perforation of the nasal septa.

**4.3 Indication of any immediate medical attention and special treatment needed**
no data available

## Section 5: Fire-fighting 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**
Barium oxide, Chromium oxides

**5.3 Advice for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**
Use water spray to cool unopened containers.

## 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. Evacuate personnel to safe areas. Avoid breathing dust.

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

**6.3 Methods and materials for containment and cleaning up**
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

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## Section 7: Handling and storage

**7.1 Precautions for safe handling**
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition
No smoking. Keep away from heat and sources of ignition.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**7.3 Specific end uses**
no data available

## Section 8: Exposure controls/personal protection

**8.1 Control parameters**
Components with workplace 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**
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the 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 (EN 143) respirator cartridges 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).

## Section 9: Physical and chemical properties

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

| | |
|---|---|
| **Appearance Form** | powder |

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| | |
|---|---|
| **Odour** | no data available |
| **Odour Threshold** | no data available |
| **pH** | no data available |
| **Melting point/freezing point** | Melting point/range: 210 °C - dec. |
| **Initial boiling point and boiling range** | no data available |
| **Flash point** | not applicable |
| **Evaporation rate** | no data available |
| **Flammability (solid, gas)** | no data available |
| **Upper/lower flammability or explosive limits** | no data available |
| **Vapour pressure** | no data available |
| **Vapour density** | no data available |
| **Relative density** | 4,5 g/mL at 25 °C |
| **Water solubility** | 0,34 g/l at 20 °C - insoluble |
| **Partition coefficient: noctanol/water** | no data available |
| **Autoignition temperature** | no data available |
| **Decomposition temperature** | no data available |
| **Viscosity** | no data available |
| **Explosive properties** | no data available |
| **Oxidizing properties** | the substance or mixture |

## Section 10: Stability and Reactivity

**10.1 Reactivity**
no data available

**10.2 Chemical stability**
no data available

**10.3 Possibility of hazardous reactions**
no data available

**10.4 Conditions to avoid**
no data available

**10.5 Incompatible materials**
Reducing agents, Hydrazine, Mineral acids

**10.6 Hazardous decomposition products**
**Other decomposition products**
no data available

## Section 11: Toxicological Information

**Information on toxicological effects**
**Acute toxicity**
no data available

**Skin corrosion/irritation**
no data available

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**Serious eye damage/eye irritation**
no data available

**Respiratory or skin sensitization**
no data available

**Germ cell mutagenicity**
Genotoxicity in vitro - Hamster - ovary
Sister chromatid exchange

**Carcinogenicity**
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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 Harmful if inhaled. May cause respiratory tract irritation.
Ingestion Harmful if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.

**Signs and Symptoms of Exposure**
Dermatitis, Nausea, Vomiting, Dizziness, Convulsions, Muscle cramps/spasms., Irregular breathing, Pulmonary edema. Effects may be delayed., Exposure to chromate salts has been reported to produce skin and nasal ulcerations with continued exposure leading to perforation of the nasal septa.

**Additional Information**
RTECS: Not available

## Section 12: Ecological Information

**12.1 Toxicity**
no data available

**12.2 Persistence and degradability**
no data available

**12.3 Bioaccumulative potential**
no data available

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**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

**Waste treatment methods**
**Product**
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**
Dispose of as unused product

## Section 14: Transport Information

**14.1 UN number**

| | |
|---|---|
| ADR/RID | 1479 |
| IMDG | 1479 |
| IATA | 1479 |

**14.2 UN proper shipping name**

| | |
|---|---|
| ADR/RID | OXIDIZING SOLID, N.O.S. (Barium chromate) |
| IMDG | OXIDIZING SOLID, N.O.S. (Barium chromate) |
| IATA | Oxidizing solid, n.o.s. (Barium chromate) |

**14.3 Transport hazard class(es)**

| | |
|---|---|
| ADR/RID | 5.1 |
| IMDG | 5.1 |
| IATA | 5.1 |

**14.4 Packaging group**

| | |
|---|---|
| ADR/RID | II |
| IMDG | II |
| IATA | II |

**14.5 Environmental hazards**

| | |
|---|---|
| ADR/RID | yes |
| IMDG Marine pollutant | yes |
| IATA | no |

**14.6 Special precautions for user**
no data available

# BARIUM CHROMATE

## Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16: Other Information

Not Regulated