

Section 1. Identification**1.1 Product Identifier** CHE5360SE

| | |
|-----------------------|---|
| Product Name | SODIUM DICHROMATE (VI) ANHYDROUS 500g. |
| CAS Number | 10588-01-9 |
| REACH Registration No | A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date. |
| Molecular Formula | $\text{Na}_2\text{Cr}_2\text{O}_7 = 261.97$ |

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

| | |
|------------------|--|
| Uses of Material | Chemical for industrial and laboratory use. Not suitable for domestic use. |
|------------------|--|

1.3 Supplier SLS Select Education

Wilford Industrial Estate
Ruddington Lane
Wilford
Nottingham
NG11 7EP
UNITED KINGDOM

| | |
|-------|---------------------------|
| Phone | 0115 9821111 |
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1.4 Emergency Telephone (08:00-17:00) 0115 9821111
(24hr) 112
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

| | |
|--|--|
| Oxidising solid, category 2 | H272: May intensify fire; oxidizer. |
| Acute toxicity, category 2 (inhalation) | H330: Fatal if inhaled. |
| Acute toxicity, category 3 (oral) | H301: Toxic if swallowed. |
| Skin corrosion/irritation, category 1B | H314: Causes severe skin burns and eye damage. |
| Acute toxicity, category 4 (dermal) | H312: Harmful in contact with skin. |
| Respiratory sensitization, category 1 | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitization, category 1 | H317: May cause an allergic skin reaction. |
| Germ cell mutagenicity, category 1B | H340: May cause genetic defects. |
| Carcinogenicity, category 1B | H350: May cause cancer. |
| Reproductive toxicity, category 1B | H360: May damage fertility or the unborn child. |
| Spec target organ tox - repeat, category 1 | H372: Causes damage to organs through prolonged or repeated exposure. |
| Hazard to aquatic environment, category 1 | H400: Very toxic to aquatic life. |
| Hazard to aquatic environment, category 1 | H410: Very toxic to aquatic life with long lasting effects. |

2.2 Label elements**Labelling according to regulation 1272/2008/EC**

Signal word

Danger

Hazard Pictograms



Hazard Statements

May intensify fire; oxidizer. Toxic if swallowed. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage. Harmful in contact with skin. Very toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

Precautionary Statements

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection.

Section 3. Composition

3.1 Substances

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|-------------------|------------|-----------|-----------|----------|---|
| Sodium dichromate | 10588-01-9 | 234-190-3 | | >99.8% | Ox. Sol. 2, Acute Tox. 2 (I), Acute Tox. 3 (O), Skin Corr. 1B, Acute Tox. 4 (D), Resp. Sens. 1, Skin Sens. 1, Muta. 1B, Carc. 1B, Repr. 1B, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1 |

Section 4. First Aid

4.1 Description of first aid measures

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| Eyes | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. Unless contact has been slight OBTAIN MEDICAL ATTENTION |
| Skin | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. Unless contact has been slight OBTAIN MEDICAL ATTENTION |
| Inhalation | Remove from exposure. Irrigate mouth and nasal passage with water. OBTAIN MEDICAL ATTENTION. |
| Ingestion | If conscious give several glasses of water to drink and 5-10g of ascorbic acid dissolved in water. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Personal protection for first aiders | Wear protective gloves / eye protection. |

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

| | |
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| Extinguishing Media | Consider what other flammable materials are present and act accordingly. |
| Unsuitable Media | Nothing specified. |

5.2 Special hazards arising from the substance or mixture

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|---------|--|
| Hazards | Not combustible but assists burning. Contact with combustible material may cause a fire. |
|---------|--|

5.3 Advice for firefighters

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|-------------------------|--|
| Advice for firefighters | Fire-fighters should wear protective clothing and breathing apparatus. |
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Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing dust-wear respiratory protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. Keep combustible material away from spillage.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Small areas of contamination should be treated with ferrous sulphate solution to reduce the chromium to the safer (trivalent) form and the pH adjusted to 8.5 prior to disposal. Wash area down with copious amounts of water.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable container for disposal. Carry out this operation under fume extraction. Small areas of contamination should be treated with ferrous sulphate solution to reduce the chromium to the safer (trivalent) form and the pH adjusted to 8.5 prior to disposal. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in a suitable area for oxidising agents. Do not store on wooden surfaces. Keep well separated from combustible materials.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

| Component | CAS No | Concentration | Workplace Exposure Limits | | | |
|-------------------|------------|---------------|---------------------------|-------------------------|----------|---|
| | | | Long Term (8hr TWA) | Short Term 15min period | | |
| Sodium dichromate | 10588-01-9 | >99.8% | - | - | 0.05 ppm | - |

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Bright orange crystals.

Odour Odourless.

| | |
|-----------------------|---------------------------|
| pH | 4 @ 20°C |
| Boiling Point | 400°C |
| Melting Point | 357°C |
| Flash Point | Not applicable |
| Upper Flammable Limit | Not applicable |
| Lower Flammable Limit | Not applicable |
| Auto Ignition | Not applicable |
| Explosive Properties | No. |
| Oxidising Properties | A strong oxidising agent. |
| Vapour Pressure | Not applicable |
| Relative Density | 2.3500 |
| Water Solubility | 73% |

9.2 Other information

No data available.

Section 10. Stability & Reactivity

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|------|------------------------------------|---|
| 10.1 | Reactivity | No data available. |
| 10.2 | Chemical Stability | Stable under normal conditions but starts to decompose at 500C liberating oxygen. |
| 10.3 | Possibility of hazardous reactions | No data available. |
| 10.4 | Conditions to Avoid | No specific conditions. |
| 10.5 | Incompatible Materials | Many organic compounds. Combustible materials. Acids. Alkalis. |
| 10.6 | Hazardous Decomposition Products | Liberates oxygen on decomposition which will assist in a fire. |

Section 11. Toxicological Information

11.1 Information on toxicological effects

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|----------------------|---|
| Eyes | The solid and solutions will cause severe irritation and corneal damage. |
| Skin | The solid and solutions will highly irritating and corrosive to the skin, local inflammation can occur from 5% solutions. Contact with broken skin may lead to ulcers especially on the hands and forearms. Can be absorbed through the skin and cause systemic poisoning and subsequent kidney damage. A potent skin sensitiser. |
| LD50 Skin | 1000mg/kg Rabbit |
| Ingestion | Ingestion will cause cause dental discolouration, nausea, vomiting, diarrhoea, and cardiovascular shock due to blood loss into the gastrointestinal tract. Necrosis of the liver and kidneys may also occur. |
| LD50 Oral | 51mg/kg Rat |
| Inhalation | Inhalation of dust will produce severe irritation of the eyes, nose, throat and respiratory tract. Causes inflammation of the larynx, bronchitis, and ulceration of the nasal septum. Capable of causing respiratory sensitisation. |
| LD50 Inhalation | Not available |
| TCLo | Not available |
| Carcinogenicity | Must be considered to have carcinogenic properties. Carcinogenicity, category 1B. |
| Mutagenicity | A mutagen. |
| Reproductive Effects | Reproductive toxicity, category 1B. |

Section 12. Ecological

| | | |
|------|-------------------------------|---|
| 12.1 | Toxicity | Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. |
| | LC50 Algal | Not available |
| | LC50 Crustacea | Not available |
| | LC50 Fish | Not 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 & vPvB assessment | Assessment not required. |
| 12.6 | Other adverse effects | None known at present. |

Section 13. Disposal Considerations

13.1 Waste treatment methods

| | |
|------------------------|---|
| Disposal Methods | Never dispose of into water courses or sewerage systems. Treat with ferrous sulphate solution to reduce the chromium to the safer (trivalent) form. The pH should be adjusted to 8.5, with sodium hydroxide or sodium carbonate, prior to disposal. |
| Contaminated Packaging | Use a licensed waste disposer. |

Section 14. Transport Information

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|------|------------------------------|--|
| 14.1 | UN Number | 3086 |
| 14.2 | Proper Shipping Name | Toxic solid, oxidizing, N.O.S. (Sodium Dichromate) |
| 14.3 | Transport classes | |
| | UN classification | 6.1. |
| | Subsidiary hazard(s) | 5.1 |
| | Transport category | 2 |
| | ADR Hazard ID | 65 |
| | Tunnel Restriction Code | D/E |
| 14.4 | Packing Group | II |
| 14.5 | Environment hazards | See section 12. |
| 14.6 | Special precautions for user | No special precautions required. |
| 14.7 | Transport in bulk | Not transported in bulk. |



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for substance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 2; Acute toxicity, category 2 (inhalation); Acute toxicity, category 3 (oral); Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (dermal); Respiratory sensitization, category 1; Skin sensitization, category 1; Germ cell mutagenicity, category 1B; Carcinogenicity, category 1B; Reproductive toxicity, category 1B; Spec target organ tox - repeat, category 1; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H272, H301, H330, H334, H340, H350, H360, H372, H314, H312, H410, H317
May intensify fire; oxidizer. Toxic if swallowed. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage. Harmful in contact with skin. Very toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

Precautionary Statements P210, P220, P221, P280
Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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