

**Section 1. Identification****1.1 Product Identifier** CHE3310

Product Name SODIUM CHLORATE pure 1Kg.

CAS Number 7775-09-9

REACH Registration No 01-2119474389-23-XXXX

Molecular Formula  $\text{NaClO}_3$  =106.44**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** Scientific Laboratory SuppliesUnit 6, Foresters Avenue  
Fairham Business Park  
Fairham  
Nottingham  
NG11 2AF  
UNITED KINGDOM

Phone 0115 9821111

Fax 0115 9825275

Email sales@scientific-labs.com

**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 1

Acute toxicity, category 4 (oral)

Hazard to aquatic environment, category 2

H271: May cause fire or explosion; strong oxidizer.

H302: Harmful if swallowed.

H411: 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 cause fire or explosion; strong oxidizer. Harmful if swallowed. Toxic to aquatic life with long lasting effects.

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 chlorate | 7775-09-9 | 231-887-4 | 01-2119474389-23-XXXX | >99.5%   | Ox. Sol. 1, Acute Tox. 4 (O), Aquatic Chronic 2 |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |   |
|--------------------------------------|---|
| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.  |
| Skin                                 | Wash off skin thoroughly with water.  |
| Inhalation                           | Remove from exposure. If material has reacted with an acid to form, chlorine, seek immediate medical assistance. OBTAIN MEDICAL ATTENTION.  |
| Ingestion                            | If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. 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

|                     |                    |
|---------------------|--------------------|
| Extinguishing Media | Water spray.       |
| Unsuitable Media    | Nothing specified. |

### 5.2 Special hazards arising from the substance or mixture

|         |  |
|---------|--|
| Hazards | May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with finely divided combustible materials can react explosively. |
|---------|--|

### 5.3 Advice for firefighters

|                         |  |
|-------------------------|--|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |
|-------------------------|--|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                     |  |
|---------------------|--|
| Personal Protection | Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus. Only re-enter area with full protective clothing and breathing apparatus. |
|---------------------|--|

### 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. |
|---------------|--|

### 6.3 Methods and material for containment and cleaning up

|                |  |
|----------------|--|
| Major Spillage | Shovel/sweep up into container for removal Wash area down with copious amounts of water. |
| Minor Spillage | 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 to a minimum.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. 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 chlorate | 7775-09-9 | >99.5%        | -                         | -                       |

Exposure data source(s) No occupational exposure data currently available.

### 8.2 Exposure controls

|                        |  |
|------------------------|--|
| Respiratory Protection | If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.                              |
| Hand Protection        | Wear gloves.   |
| 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            | White crystalline solid.  |
| Odour                 | No specific odour.        |
| pH                    | 7 @ 20°C In               |
| Boiling Point         | 300°C                     |
| Melting Point         | 248°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      | 2.5000                    |
| Water Solubility      | 100%                      |

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1 Reactivity No data available.

|             |                                    |   |
|-------------|------------------------------------|---|
| <b>10.2</b> | Chemical Stability                 | Stable under normal conditions  |
| <b>10.3</b> | Possibility of hazardous reactions | No data available.  |
| <b>10.4</b> | Conditions to Avoid                | Avoid contact with acids or combustible materials.  |
| <b>10.5</b> | Incompatible Materials             | Many organic compounds. Combustible materials. Acids.   |
| <b>10.6</b> | Hazardous Decomposition Products   | Liberates oxygen on decomposition which will assist in a fire. May produce hazardous fumes if involved in a fire. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |   |
|----------------------|---|
| Eyes                 | Contact with the solid or dust may be irritating to the eyes.   |
| Skin                 | The solid and solutions may be irritating to the skin.  |
| LD50 Skin            | Not available   |
| Ingestion            | Harmful if swallowed. Symptoms include greyish-blue complexion, vomiting, diarrhoea, shortness of breath leading to collapse. |
| LD50 Oral            | 1200mg/kg Rat   |
| Inhalation           | Harmful by inhalation.  |
| LD50 Inhalation      | Not available   |
| TCLo                 | Not available   |
| Carcinogenicity      | Not considered to be a carcinogen.  |
| Mutagenicity         | Not considered to be a mutagen.   |
| Reproductive Effects | None identified.  |

## Section 12. Ecological

|             |                                  |   |
|-------------|----------------------------------|---|
| <b>12.1</b> | Toxicity                         | Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life. |
|             | LC50 Algal                       | Not available   |
|             | LC50 Crustacea                   | Not available   |
|             | LC50 Fish                        | Not available   |
| <b>12.2</b> | Persistence and degradability    | No data available.  |
| <b>12.3</b> | Bioaccumulative potential        | No data available.  |
| <b>12.4</b> | Mobility in soil                 | No data available.  |
| <b>12.5</b> | Results of PBT & vPvB assessment | Assessment not required.  |
| <b>12.6</b> | Other adverse effects            | None known at present.  |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |                                      |
|------------------------|--------------------------------------|
| Disposal Methods       | Do not dispose of as domestic waste. |
| Contaminated Packaging | Wash out containers with water.      |

## Section 14. Transport Information

|  |                                  |
|--|----------------------------------|
| <b>14.1 UN Number</b>                    | 1495                             |
| <b>14.2 Proper Shipping Name</b>         | Sodium chlorate                  |
| <b>14.3 Transport classes</b>            |                                  |
| UN classification                        | 5.1                              |
| Subsidiary hazard(s)                     | None                             |
| Transport category                       | 2                                |
| ADR Hazard ID                            | 50                               |
| Tunnel Restriction Code                  | E                                |
| <b>14.4 Packing Group</b>                | II                               |
| <b>14.5 Environment hazards</b>          | See section 12.                  |
| <b>14.6 Special precautions for user</b> | No special precautions required. |
| <b>14.7 Transport in bulk</b>            | 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 1; Acute toxicity, category 4 (oral); Hazard to aquatic environment, category 2

Signal word Danger

Hazard Pictograms



Hazard Statements H271, H302, H411  
May cause fire or explosion; strong oxidizer. Harmful if swallowed. Toxic to aquatic life with long lasting effects.

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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