



## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

|              |                          |
|--------------|--------------------------|
| Product name | Sodium chlorate          |
| CAS number   | 7775-09-9                |
| Synonyms     | No information available |

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

|                 |                      |
|-----------------|----------------------|
| Identified uses | Laboratory Chemicals |
|-----------------|----------------------|

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

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918                                                               |
| Fax       | 512-886-4008                                                               |

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                                                      |            |
|------------------------------------------------------|------------|
| Oxidizing solids                                     | Category 1 |
| Acute oral toxicity                                  | Category 4 |
| Specific target organ toxicity - (repeated exposure) | Category 2 |
| Target Organs - Kidney, Blood                        |            |

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

May cause fire or explosion; strong oxidizer. Harmful if swallowed.  
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using through product. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep/store away from clothing/ other combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye protection/face protection. Wear fire/flammable resistant/retardant clothing.  
Get medical attention/advice if you feel unwell.  
IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.  
Dispose of contents/container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Toxic to aquatic life with long lasting effects. May cause pulmonary edema.

### SECTION 3: Composition/information on ingredients

#### 3.1 Components

| Chemical name   | Common name and synonyms | CAS number | Concentration |
|-----------------|--------------------------|------------|---------------|
| Sodium chlorate | -                        | 7775-09-9  | >95%          |

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

General advice

|                                |                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If inhaled</b>              | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Get medical attention immediately if symptoms occur. |
| <b>In case of skin contact</b> | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms.                                                                                                                                                                                                    |
| <b>In case of eye contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.                                                                                                                                                                                                   |
| <b>If swallowed</b>            | Do not induce vomiting. Call a physician or Poison Control Center immediately.                                                                                                                                                                                                                                       |

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available. May cause methemoglobinemia.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

|                                     |                                                                              |
|-------------------------------------|------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b> | Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam. |
|-------------------------------------|------------------------------------------------------------------------------|

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Unsuitable extinguishing media</b> | No information available |
|---------------------------------------|--------------------------|

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

Oxidizer: contact with combustible/organic material may cause fire. Decomposes violently at elevated temperatures. Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

|                    |                   |
|--------------------|-------------------|
| <b>Flash Point</b> | No data available |
|--------------------|-------------------|

|                                 |                   |
|---------------------------------|-------------------|
| <b>Autoignition Temperature</b> | No data available |
|---------------------------------|-------------------|

|                         |                   |
|-------------------------|-------------------|
| <b>Explosion limits</b> |                   |
| Upper                   | No data available |

**Lower** No data available

**Sensitivity to Mechanical Impact**

No information available

**Sensitivity to Static Discharge**

No information available

**NFPA**

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2      | 0            | 1           | OX               |

## SECTION 6: Accidental release measures

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

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

### 6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains. Keep out of waterways. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

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

Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep container tightly closed in a dry and well-ventilated place. Keep combustibles (wood, paper, oil, etc) away from spilled material.

### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Keep away from clothing and other combustible materials. Avoid dust formation. Do not breathe dust. Wash hands before breaks and immediately after handling the product.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

#### Storage conditions

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials.

#### Incompatibilities

No information available.

## SECTION 8: Exposure controls/personal protection

## 8.1 Occupational exposure limits

### **US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

This product does not contain any hazardous material with occupational exposure limits established by the region specific regulatory bodies.

### **US. ACGIH Threshold Limit Values**

This product does not contain any hazardous material with occupational exposure limits established by the region specific regulatory bodies.

### **US. NIOSH: Pocket Guide to Chemical Hazards**

This product does not contain any hazardous material with occupational exposure limits established by the region specific regulatory bodies.

### **Biological occupational exposure limits**

No information available

## 8.2 Exposure controls

### **Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Personal protective equipment**

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### **Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

Follow the OSHA respirator regulation found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### **Control of environmental exposure**

No information available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                           |                                 |
|-------------------------------------------|---------------------------------|
| Physical State                            | Solid                           |
| Appearance                                | White                           |
| Odor                                      | Odorless                        |
| Odor Threshold                            | No information available        |
| pH                                        | No information available        |
| Melting Point/Range                       | 248 - 261 °C / 478.4 - 501.8 °F |
| Boiling Point/Range                       | No information available        |
| Evaporation Rate                          | No information available        |
| Flammability (solid)                      | No information available        |
| Flammability or explosive limit           |                                 |
| Upper                                     | No data available               |
| Lower                                     | No data available               |
| Vapor Pressure                            | No information available        |
| Vapor Density                             | No information available        |
| Density                                   | 2.49                            |
| Solubility                                | No information available        |
| Partition coefficient;<br>n-octanol/water | No data available               |
| Autoignition Temp                         | No information available        |
| Decomposition Temp                        | No information available        |
| Viscosity                                 | No information available        |
| Molecular Formula                         | CINaO3                          |
| Molecular Weight                          | 106.44                          |
| VOC Content(%)                            | No information available        |
| Oxidizing properties                      | Oxidizer                        |

### 9.2 Other safety information

No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

None under normal processing

#### 10.4 Conditions to avoid

Incompatible products. Combustible material. Avoid shock and friction. Heat, flames and sparks.

#### 10.5 Incompatible materials

Organic materials, powdered metals, ammonia, acids, strong reducing agents, alcohols.

#### 10.6 Hazardous decomposition products

Chlorine, sodium oxides

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Product Information, Component Information

##### Acute toxicity

| Component       | LD50 Oral        | LD50 Dermal | LC50 Inhalation   |
|-----------------|------------------|-------------|-------------------|
| Sodium chlorate | 1200 mg/kg (rat) | -           | 28 g/m3 (rat) 1hr |

##### Skin corrosion/irritation

May cause skin irritation.

##### Serious eye damage/eye irritation

May cause eye irritation

##### Respiratory or skin sensitization

May cause respiratory tract irritation.

##### Germ cell mutagenicity

Mutagenic effects have occurred in experimental animals.

##### Carcinogenicity

| Component       | CAS       | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------------|-----------|------------|------------|------------|------------|------------|
| Sodium chlorate | 7775-09-9 | Not listed | Not listed | Not listed | Not listed | Not listed |

##### Specific target organ toxicity - single exposure

None known

##### Specific target organ toxicity - repeated exposure

Kidney, Blood

##### Reproductive toxicity

No information available

**Chronic effects**

No information available

**11.2 Additional Information**

No information available

**SECTION 12: Ecological information****12.1 Toxicity**

| Product         |      | Species         | Test Results    |
|-----------------|------|-----------------|-----------------|
| Sodium chlorate | LC50 | Freshwater fish | 7090 mg/L 96 h  |
|                 | LC50 | Freshwater fish | 1750 mg/L 96 h  |
|                 | LC50 | Freshwater fish | 13500 mg/L 96 h |

**12.2 Persistence and degradability**

No information available

**12.3 Bio accumulative potential**

No information available

**12.4 Mobility in soil**

No information available

**12.5 Results of PBT and vPvB assessment**

No information available

**12.6 Endocrine disrupting properties**

No information available

**12.7 Other adverse effects**

See actual entry in RTECS for complete information.

**SECTION 13: Disposal considerations****13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14: Transport information****DOT (US)**

UN Number

UN1495

Proper Shipping name SODIUM CHLORATE  
Hazard Class 5.1  
Packaging Group II

#### **IMDG**

UN Number UN1495  
Proper Shipping name SODIUM CHLORATE  
Hazard Class 5.1  
Packaging Group II

#### **IATA**

UN Number UN1495  
Proper Shipping name SODIUM CHLORATE  
Hazard Class 5.1  
Packaging Group II

### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not listed

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **SARA 304 Emergency release notification**

Not listed

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **SARA 302 Extremely hazardous substance**

Not listed

##### **SARA 311/312 Hazardous**

Listed: Acute Health Hazard, Chronic Health Hazard

##### **SARA 313 (TRI reporting)**

Not listed

#### **Other federal regulations**

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not listed

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed

**Safe Drinking Water Act**

Not listed

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed

**US. New Jersey Worker and Community Right-to-Know Act**

Listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.