

# 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

12501 Pauls Valley Road Austin, Texas 78737

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

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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:

Prevention 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 precuation to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye

protection/face protection. Wear fire/flame resistant/retardent clothing.

Response Get medical attention/advice if you feel unwell.

Skin IF ON CLOTHING: Rinse immediately contaminated clothing and skin

with plenty of water before removing clothes.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell. Rinse mouth

Fire In case of major fire and large quantities: Evacuate area. Fight fire

remotely due to the risk of explosion. In case of fire: Use CO2, dry

chemical, or foam for extinction.

Disposal 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

Che	Chemical name Common name and synonyms		CAS number	Concentration
Soc	dium chlorate	-	7775-09-9	>95%

#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### **General advice**

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If inhaled 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.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get medical

attention immediately if symptoms.

**In case of eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Obtain medical attention.

**If swallowed**Do not induct 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

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Dry chemical.

Chemical foam.

Unsuitable extinguishing media 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

Flash Point No data available

Autoignition Temperature No data available

**Explosion limits** 

UpperNo data availableLowerNo data available

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available

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#### **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

#### Precautions on 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 avialable.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

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#### **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 and 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

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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; n-octanol/water No data available

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

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 fricition. 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**

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# 11.1 Information on toxicological effects

# **Product Information, Component Information**

# **Acute toxicity**

Componer	nt LD50 (	Oral LD50 Dern	nal LC50 Inhalation
Sodium chlor	ate 1200 mg/l	kg (rat) Not listed	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				

#### 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
	LC50	Freshwater fish	7090 mg/L 96 h
Sodium chlorate	LC50	Freshwater fish	1750 mg/L 96 h
	LC50	Freshwater fish	13500 mg/L 96 h

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## 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-No** UN1495

Proper Shipping Name SODIUM CHLORATE

Hazard Class 5.1 Packing Group

**IMDG** 

**UN-No** UN1495

Proper Shipping Name SODIUM CHLORATE

Hazard Class 5.1 Packing Group

IATA

**UN-No** UN1495

Proper Shipping Name SODIUM CHLORATE

Hazard Class 5.1 Packing Group

# **SECTION 15: Regulatory information**

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**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**

Nost 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

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#### **SECTION 16: Other information**

Issue date: 11/24/2010 Revision 1: 09/07/2023 Revision 2: 07/22/2024 Revision 3: 07/03/2025

#### **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.

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