

# **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 data 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

22111 Highway 71 West, Suite 601

Spicewood, Texas 78669

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)
Target Organs - Kidney, Blood

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## 2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal Word: Danger

Hazard statement(s): May cause fire or explosion; strong oxidizer. Harmful if swallowed. May cause

damage to organs through prolonged or repeated exposure.

Precautionary statement(s): Prevention - Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this 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/flame resistant/retardant clothing. **Response** - 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. Use CO2, dry chemical, or foam for extinction. Dispose of contents/container to an

approved waste disposal plant.

#### Hazards not otherwise classified

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

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Ingredient	CAS Number	Percent	Hazardous
			Chemical
Sodium chlorate	7775-09-9	>95%	Yes

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

## 4.1 Description of first-aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

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

minutes. Obtain medical attention.

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

attention immediately if symptoms occur.

In case of ingestion: Do not induce vomiting. Call a physician or Poison Control Center immediately.

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## 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 (and unsuitable) extinguishing media

Water spray. Carbon-dioxide (CO2). Dry chemical. Chemical foam. No information available on unsuitable extinguishing media.

## 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

Hazardous Combustion Products: Hydrogen peroxide gas, Chlorine. Chlorine Sodium oxides.

#### **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

For disposal see Section 13. Refer to section 8 of SDS for personal protection details.

## **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.

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#### 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.

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

## 8.1 Occupational exposure limits

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

#### 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 regulations 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

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.

#### **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical StateSolid.AppearanceWhite.OdorOdorless.Odor ThreshNot available.pHNot available.

Melting Point/Range 248 - 261 °C / 478.4 - 501.8 °F

Boiling Point/Range Not available.
Flash Point Not available.
Evaporation Rate Not available.
Flammability (solid, gas) Not available.

Flammability or explosive limit

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Upper : NA Lower : NA

Vapor PressureNot available.Vapor DensityNot available.Density2.490

Solubility Soluble in water. Partition coefficient; n-octanol/water Not available. **Autoignition Temp** Not available. **Decomposition Temp** Not available. **Viscosity** Not available. Molecular Formula NaClO3 **Molecular Weight** 106.44 VOC Content(%) Not available. **Oxidizing properties** None.

## 9.2 Other safety information

None.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

#### 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

**Acute toxicity** 

Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chlorate	1200 mg/kg (Rat)	Not listed	28 g/m3 (Rat)1 h

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#### 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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium chlorate	7775-09-9	Not listed				

#### Reproductive toxicity

No data available.

## Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

Kidney, Blood.

#### **Aspiration hazard**

No data available.

#### **Chronic effects**

May cause methemoglobinemia.

#### 11.2 Additional information

None.

# **SECTION 12. Ecological information**

## 12.1 Toxicity

**Ecotoxicity:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not

empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium chlorate	Not listed	7090 mg/L LC50 96 h 1750 mg/L LC50 96 h 13500 mg/L LC50 96 h		Not listed

# 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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Endocrine disrupting properties

No data 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

**UN-No** UN1495

Proper Shipping Name SODIUM CHLORATE

Hazard Class 5.1 Packing Group

**TDG** 

**UN-No** UN1495

Proper Shipping Name SODIUM CHLORATE

Hazard Class 5.1 Packing Group II

**IATA** 

**UN-No** UN1495

Proper Shipping Name SODIUM CHLORATE

Hazard Class 5.1 Packing Group

IMDG/IMO

**UN-No** UN1495

Proper Shipping Name SODIUM CHLORATE

Hazard Class 5.1 Packing Group

## **SECTION 15: Regulatory information**

#### **International Inventories**

	Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
I	Sodium chlorate	Х	Х	-	232-887-4	-		Х	Χ	Χ	Χ	Х

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#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

#### SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA

Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium chlorate	X	Х	X	-	X

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

#### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Component	DHS Chemical Facility Anti-Terrorism Standard		
Sodium chlorate	2000 lb STQ		

## Other International Regulations

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class C Oxidizing materials

D1B Toxic materials

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## **SECTION 16: Other information**

Issue Date 11/24/2010 Revision Date 09/07/2023

#### 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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