Sodium Chlorate



Section 1 Product Description

Product Name: Sodium Chlorate

Recommended Use: Science education applications

Synonyms: N/A

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER





May cause fire or explosion; strong oxidizer. Harmful if swallowed. Causes eye irritation. Toxic to aquatic life.

GHS Classification:

Oxidizing Solid Category 1, Serious Eye Damage/Eye Irritation Category 2B, Hazardous to the aquatic environment - Acute Category 2, Skin Corrosion/Irritation Category 3, Acute Toxicity - Oral Category 4, Acute Toxicity - Inhalation Dust / Mist Category 5

Other Safety Precautions: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the

risk of explosion.

Section 3 Composition / Information on Ingredients

Chemical NameCAS #%Sodium Chlorate7775-09-9100

Section 4 First Aid Measures

Emergency and First Aid Procedures

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: 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.

Section 5 Firefighting Procedures

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting

fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly

into the hot burning liquid.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Product is a strong oxidizer. Contact with combustible materials, flammable materials, or

powdered metals can cause fire or explosion. Can react violently with reducing agents.

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Hazardous Combustion Products: Hydrogen chloride, Sodium Oxides

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid contact with clothing. Avoid creating and inhaling dust. Avoid contact with skin and eyes.

Reduce airborne dust and prevent scattering by moistening with water Vacuum or sweep up material and place in a disposal container Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120). Do not allow the spilled product to enter public drainage system or

open waterways.

Section 7

Handling and Storage

Handling: 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. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear fire/flame resistant/retardant clothing. Use only in

well-ventilated areas. Avoid contact with skin and eyes. Harmful if swallowed. Do not breathe dust.

Storage: Store in a secure area suitable for corrosives and oxidizing agents.

Store separately and away from flammable and combustible materials.

Yellow - Reactive. Store separate and away from incompatible material. Storage Code:

Section 8

Protection Information

ACGIH OSHA PEL

Chemical Name (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Respiratory

protection may be required in addition to ventilation depending upon conditions of use.

Respirator Type(s): NIOSH approved air purifying respirator with dust/mist filter.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Nitrile Gloves:

Section 9

Physical Data

Formula: NaClO3 Molecular Weight: 106.45 **Appearance:** Crystals Odor: No data available

Odor Threshold: No data available

pH: No data available Melting Point: 248 - 261 C **Boiling Point: 299 C**

Flash Point: No data available Flammable Limits in Air: N/A

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.490 at 15 °C

Solubility in Water: Practically Insoluble Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity Data

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Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Alcohols, Strong reducing agents, Organic Compounds

Hazardous Decomposition Products: Sodium Oxides, Hydrogen chloride

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

 Chemical Name
 CAS Number
 Oral LD50
 Dermal LD50
 Inhalation LC50

 Sodium Chlorate
 7775-09-9
 Oral LD50 Rat 1200 mg/kg
 Dermal LD50
 Inhalation LC50

 Rabbit > 10000 mg/kg
 (1h) Rat = 28000 mg/kg
 MG/CU M

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available7775-09-9Not listedNot listedNot listed

Chronic Effects:

Mobility:

Persistence:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: Severe ecological hazard. This product may be toxic to plants and/or wildlife. Keep out of waterways.

No data No data No data

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Sodium Chlorate 7775-09-9 24 HR LC50 ONCORHYNCHUS MYKISS 4200 MG/L

96 HR LC50 PIMEPHALES PROMELAS 13500 MG/L 96 HR LC50 ONCORHYNCHUS MYKISS 1750 MG/L 96 HR LC50 CYPRINUS CARPIO 7090 MG/L

24 HR EC50 DAPHNIA MAGNA 1093 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

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UN1495 SODIUM CHLORATE Division 5.1 PG II ***Ltd Qty = / < 1 Kg.*** UN number: 1495 Class: 5.1 Packing group: II Proper shipping

name: Sodium chlorate

Section 15	Regulatory Information						
TSCA Status:	All components in this product are on the TSCA Inventory.						
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ	
No data available	7775-09-9	No	No	No	No	No	

Section 16 Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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