

Material Safety Data Sheet

2# Sodium Chlorate Solution
Issue Date: 09/07

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT

2# Sodium Chlorate Defoliant -Desiccant

Common Name: Sodium Chlorate Solution
Chemical Family: Chlorates
Formula: $\text{NaClO}_3 + \text{H}_2\text{O}$
Synonyms: 2 lb. Chlorate Defoliant
CAS Number: 7775-09-9 (Technical)
EPA Number: 5905-87

MANUFACTURED FOR

Fertilizer Company of Arizona, Inc.
2850 South Peart Road
Casa Grande, Arizona 85293

Emergency Phone Numbers

Emergency Telephone: 520.836.7477
Riverside Environmental Services, Inc. (24-hour Emergency Number): 928.783.3803
EPA National Response Center: 800.424.8802

SECTION 2. INGREDIENTS & HAZARDS

<u>INGREDIENTS</u>	<u>CAS NO.</u>	<u>%</u>	<u>TLV OR PEL</u>	<u>HAZARD</u>
Sodium Chlorate	07775-09-9	20.1	Not Established	Oxidizer
Inert Ingredients, including Urea as a Fire Retardant		79.90	Not Applicable	Non-Hazardous

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Not D.O.T. regulated.

Carcinogen Information: None currently known.

Acute Effects of Over Exposure

Swallowing: Moderately toxic – acute oral LD50 (rate) = 1,2000 mg/kg
Skin absorption: No hazard expected
Inhalation: No hazard expected
Skin contact: May cause mild skin irritation, skin (rabbit) 500 mg/m³/24h
Eye contact: May cause mild eye irritation, eye (rabbit) 10 mg/kg
Chronic effects: Ingestion of large amounts may cause death. Symptoms include abdominal pain, nausea, vomiting, and cyanosis.
Other hazard: Note: If clothing catches fire, drench with water. Fire blankets are not recommended.

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S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute Health: Y

Delayed (Chronic) Health: N

Sudden Release of Pressure: N

Fire: N

Reactive: N

HEALTH: 2
(0=Insignificant

REACTIVITY: 0
1=Slight

FLAMMABILITY: 0
2=Moderate 3=High

ENVIRONMENT: 0
4=Extreme)

SECTION 4. FIRST AID

Eyes: Immediately flush eyes with large quantities of water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention if irritation develops.

Skin: Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. If irritation develops, seek medical attention. Launder clothing immediately.

Ingestion: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water. If so advised by a physician or Poison Control Center, induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhalation: Generally not considered an inhalation hazard. Remove victim to fresh air. If breathing is difficult, give oxygen and call a physician.

Notes to Physician: Ingestion of this material may result in mucosal damage. Use of gastric lavage may be contraindicated.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point: Non-Combustible
Test Method: Not available
LEL Flammable Limits: Not applicable
UEL Flammable Limits: Not applicable
Autoignition Temperature: Not applicable
Flammability Classification: Non flammable
Known Hazardous Products of Combustion: None
Properties that Initiate/Contribute to Intensity of Fire: None
Potential for Dust Explosion: None
Reactions that Release Flammable Gases or Vapors: Not known
Potential for Release of Flammable Vapors: None
Unusual Fire & Explosion Hazards: Temperatures greater than 570° F will decompose the product and liberate oxygen. This property makes "smothering type" fire extinguishing agents ineffective.

Extinguishing Media: Water preferred for extinguishing fires that involve sodium chlorate.

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Special Firefighting Procedures:

Smothering type extinguishers are not recommended
Wear self-contained breathing apparatus and full protective equipment. Chlorate is not combustible. However, combustion of other materials may be accelerated. Avoid breathing fumes from fire.

SECTION 6. SPILLS AND LEAKS

Spill or Leak Procedures: Rope off and contain spill area. Flush spill area with water. Do not use organic absorbent such as sawdust. Wood contaminated with this material may be rendered flammable. Absorb material with sand or clay.

Waste Disposal Method: This material must be disposed of according to federal, state, or local procedures under the Resource Conservation and Recovery Act.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes: Chemical dust/splash goggles or full-face shield to prevent eye contact is recommended. As a general rule, do not wear contact lenses when handling.

Skin: Gloves – rubber, neoprene, or nitrile.

Respiratory: Not normally needed.

Ventilation: Local exhaust sufficient

Other: Emergency shower, eye wash station, impervious apron and footwear.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Clear odorless liquid
pH:	Not Available
Specific Gravity (H ₂ O = 1)	1.198 GMS/CC
Vapor Pressure:	Not available
Vapor Density (Air=1):	Not available
Boiling Point:	> 90° C
Freezing Point:	< 32° F
Water Solubility:	100%
Vapor Density:	Not available
Evaporation Rate:	Not available
% Volatile:	Not available
Octanol/Water Partition Coefficient:	Not available
Saturated Vapor Concentration:	Not available
Melting Point:	Not available

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SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None currently known
Hazardous Polymerization:	Will not occur
Incompatibility:	Strong acids, organic substances, sulphur, powder metals, and ammonia compounds.
Hazardous Decomposition Products:	Free oxygen and chlorine dioxide under fire conditions.

SECTION 12. SPECIAL PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Do not store with food, feed, or other materials to be used or consumed by humans or animals. Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local regulations. Once dried, clothing, paper, wood, or leather contaminated with chlorate ignites readily and burns fiercely. Store in a cool, dry, fire-resistant area. Keep segregated from acids, solvents, oils, and organic ammonia salts. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

Other Precautions:

- A. RCRA hazardous waste number: D001 (Oxidizer, as waste)
- B. SARA Title III, Section 313: Not listed
- C. SARA Threshold Planning Quantity: Not listed
- D. CERCLA Reortable Quantity: 100 lbs. (as waste)
- E. 49 CFR 172.101, Appendix A: Not listed
- F. 49 CFR 172.101, Appendix B: Not listed

SECTION 13. TRANSPORTATION

D.O.T. Proper Shipping Description:	Not D.O.T. Regulated
Hazard Class:	None
Identification No.:	None
Labels Required:	None, domestically
Placarding:	None, domestically
Freight Class:	Desiccants/Defoliants, plant, liquid, NOIBN (NMFC item 50320, Class 60)
<u>Chemical Name</u>	<u>Equivalent RQ</u>
Not Applicable	Not Applicable

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.