



CHILEAN NITRATE CORPORATION

# Material Safety Data Sheet

## SECTION I

## IDENTIFICATION

Chemical Name <b>SODIUM NITRATE</b>	Chemical Family <b>NITRATES</b>	Cas No. <b>7631-99-4</b>
	Synonyms <b>SODA NITER CHILE SALTPETER</b>	Percent (Min.) <b>98.0</b>
Chemical Formula <b>NaNO<sub>3</sub></b>	Description <b>Prills (Pellets)</b>	White Solid Mol. Wt. <b>85.01</b>

## SECTION II

## MANUFACTURER INFORMATION

Manufacturer's Name <b>Sociedad Quimica y Minera de Chile, S.A.</b>	Emergency Telephone Numbers <b>Chemtrec 800-424-9300 Chilean Nitrate 804-640-7276/7277</b>
Address <b>Chilean Nitrate Corporation Town Point Center, 150 Boush St. Suite 701 Norfolk, Virginia 23510</b>	Telephone Number For Information <b>804-640-7276 Telex 823427</b>
	Date Prepared <b>May 4, 1989</b>
	Revised <b>December 14, 1993</b>

## SECTION III

## INGREDIENTS

Component	OSHA PEL	ACGIH TLV	Other Limits Recommended	Significant Effects
<b>Sodium Nitrate</b>	<b>No Information Available</b>	<b>None Established</b>	<b>No Information Available</b>	<b>None Established</b>

## SECTION IV

## FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	OSHA Classification	Flammable Explosive Limits	
			Upper	Lower
<b>Not Applicable</b>	<b>Not Applicable</b>	<b>Class 1 Oxidizer</b>	<b>Not Applicable</b>	<b>Not Applicable</b>

Extinguishing Media: **Oxidizer**  
**Small Fires: Dry Chemical, CO<sub>2</sub>, water spray or foam**  
**Large Fires: Water spray, fog or foam**

Special Fire Fighting Procedures  
**Remove containers from fire if possible without risk. Cool containers exposed to flames with water. Use NIOSH/MSHA approved self-contained breathing apparatus where this material is involved in a fire.**

Unusual Fire and Explosion Hazards  
**Oxidizer. Keep away from reducing agents, will explode if heated to 1,000°F in presence of reducing agents, organic materials or mixed with cyanides. Yields toxic gaseous oxides when heated above melting point (306.8°C).**

## SECTION V

## HEALTH HAZARD DATA

Health Hazards Acute Exposure: <b>Toxic by Ingestion, content in cured meats, fish and other food products restricted</b>	
Chronic exposure: <b>Not Applicable</b>	
Symptoms of Overexposure: <b>Not Applicable</b>	
Carcinogenicity: <b>Sodium Nitrate has not been directly implicated as a carcinogen. A constant oral intake of nitrate containing foods or water could lead to formation of carcinogenic N-Nitroso compounds.</b>	
EMERGENCY FIRST AID PROCEDURES	
SKIN	<b>Not Applicable</b>
EYES	<b>Flush with water</b>
INGESTION	<b>Drink water, induce vomiting by sticking finger down throat, call a physician.</b>
INHALATION	<b>Not Applicable</b>

**CHEMICAL NAME: SODIUM NITRATE****SECTION VI****TOXICOLOGY (Product)**

Acute Oral LD 50	<b>4.3 G/Kg (RATS)</b>	Carcinogenic: <b>not known to be carcinogenic</b>
Acute Dermal LD 50	<b>Not Determined</b>	Mutagenic: <b>not know to be mutagenic</b>
Acute Inhalation LC 50	<b>Not Determined</b>	Eye irritation: <b>may be an irritant</b>
		Primary skin irritation: <b>may be an irritant</b>
Principal routes of absorption	<b>Not Applicable</b>	
Effects of acute exposure	<b>Not Applicable</b>	
Effects of chronic exposure	<b>None expected at industrial use levels</b>	

**SECTION VII****REACTIVITY DATA**

Stability (under normal conditions) Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	Incompatibility (material to avoid) avoid contact with reducing agents and flammable or combustible materials.
Hazardous Polymerization May occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>	Hazardous decomposition: products oxides of nitrogen.

**SECTION VIII****PHYSICAL DATA**

Boiling Point (°C) <b>Not Applicable</b>	Melting Point (°C) <b>306.8</b>	Vapor Pressure (MM/Hg) <b>Not Applicable</b>	Appearance <b>White Prills (Pellets)</b>
Solubility in Water 42% at 0°C 64% at 100°C	Specific Gravity (H <sub>2</sub> O = 1) <b>2.26</b>	Vapor Density (Air = 1) <b>Not applicable</b>	Evaporation rate <b>Not Applicable</b>

**SECTION IX****SAFE HANDLING & USE PRECAUTIONS**

Waste Disposal Method <b>Sanitary landfill in accordance with federal, state and local regulations.</b>	Other precautions <b>Wood and empty paper bags used to hold this product should be removed from the premises.</b>
Steps to be taken in case material is released or spilled <b>Sweep or shovel up spilled material</b>	Handling and storing precautions store away from <b>Reducing agents and liquids of low flashpoints.</b>

**SECTION X****CONTROL MEASURES**

Respiratory protection <b>NIOSH/MSHA - Approved dust type respirator</b>	Ventilation <b>Mechanical (General)</b>
Protective gloves <b>No special gloves needed</b>	Eye Protection <b>Goggles</b>
Other protective clothing or equipment <b>None</b>	Work/hygenic practices <b>Follow recommendations in section IX</b>

Material contained herein complies with OSHA's hazard communication standard, 29 CFR 1910. 1200. Standard must be consulted for specific requirements.

The information contained herein is to the best of our knowledge and belief, accurate. However Chilean sodium nitrate is sold without representations or warranties, express or implied, of fitness for use or purpose or of merchantability beyond the description of said material on the face hereof, and is sold on the condition that seller shall not be liable for accident, injury, or damage occasioned during or resulting from the transportation, handling, storage, sale or use of the material.

**Chilean Nitrate Corporation**

Town Point Center, 150 Boush Street, Suite 701  
Norfolk, Virginia 23510

Emergency Telephone: 804-640-7276/804-640-7277

In the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals call Chemtrec: 800-424-9300