

ASTRO PRODUCT CODE # 15003



CHILEAN NITRATE CORPORATION

Material Safety Data Sheet

SECTION I

Chemical Name SODIUM NITRATE	Chemical Family NITRATES	ASTRO CHEMICALS INC. 64-94 SHAW'S LANE P.O. BOX 2248 SPRINGFIELD, MA 01102 413-781-7240	Cas No. 7631-99-4
Trade Name NITEROX™	Synonyms None		Percent (Min.) 99.4
Chemical Formula NaNO₃	Description Prills (Pellets)	White Solid	Mol. Wt. 85.01

IDENTIFICATION

SECTION II

MANUFACTURER INFORMATION

Manufacturer's Name Sociedad Quimica y Minera de Chile, S.A.	Emergency Telephone Numbers Chemtrec 800-424-9300 Chilean Nitrate 804-640-7270
Address Chilean Nitrate Corporation Town Point Center, 150 Boush St. Suite 701 Norfolk, Virginia 23510	Telephone Number For Information 804-640-7270 Telex 823427
	Date Prepared May 4, 1989

SECTION III

INGREDIENTS

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

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	OSHA Classification	Flammable Explosive Limits	
			Upper	Lower
Not Applicable	Not Applicable	Class 1 Oxidizer	Not Applicable	Not Applicable
Extinguishing Media Small Fires: Dry Chemical, CO₂, 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°C in presence of reducing agents, organic materials or mixed with cyanides. Yields toxic gaseous oxides when heated.				

SECTION V

HEALTH HAZARD DATA

Health Hazards Acute Exposure: Irritation of skin and/or mucous membranes. Ingestion of large amounts causes violent gastroenteritis. Chronic exposure: Anemia, methemoglobinemia, nephritis. Routes of exposure include inhalation, skin contact and ingestion.
Symptoms of Overexposure: Dizziness, abdominal cramps, vomiting, headache, mental impairment, cyanosis.
Carcinogenicity: 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.

EMERGENCY FIRST AID PROCEDURES

SKIN	Flush thoroughly with water
EYES	Flush with water for 15 minutes, call a physician.
INGESTION	Drink water, induce vomiting by sticking finger down throat, call a physician.
INHALATION	Remove victim to fresh air, call a physician.

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

Acute Oral LD 50	4.3 G/Kg (RATS)	Carcinogenic: not known to be carcinogenic
Acute Dermal LD 50	Not Determined	Mutagenic: not know to be mutagenic
Acute Inhalation LC 50	Not Determined	Eye irritation: may be an irritant
		Primary skin irritation: may be an irritant
Principal routes of absorption Oral, Inhalation, skin		
Effects of acute exposure dizziness, abdominal cramps, vomiting, headache, mental impairment, cyanosis, may cause skin, eye and mucous membrane irritation.		
Effects of chronic exposure None expected at industrial use levels		

SECTION VII**REACTIVITY DATA**

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

SECTION VIII**PHYSICAL DATA**

Boiling Point (°C) Not Applicable	Melting Point (°C) 306.8	Vapor Pressure (MM/Hg) Not Applicable	Appearance White Prills (Pellets)
Solubility in water Soluble	Specific Gravity (H ₂ O = 1) 2.26	Vapor Density (Air = 1) Not applicable	Evaporation rate No information available

SECTION IX**SAFE HANDLING & USE PRECAUTIONS**

Waste Disposal Method Sanitary landfill in accordance with federal, state and local regulations.	Other precautions Wood and empty paper bags used to hold this product should be removed from the premises.
Steps to be taken in case material is released or spilled wear impervious gloves, boots, wear goggles, coveralls. Wear NIOSH/MSHA approved dust respirator. Sweep or shovel up spilled material.	Handling and storing precautions store away from Reducing agents and liquids of low flashpoints. Storage area should be cool, dry, well ventilated and fireproof.

SECTION X**CONTROL MEASURES**

Respiratory protection NIOSH/MSHA - Approved dust type respirator	Ventilation Mechanical (General)
Protective gloves Impervious - Butyl or rubber	Eye Protection Goggles
Other protective clothing or equipment Coveralls and Impervious boots	Work/hygenic practices Follow recommendations in section IX safe handling & use precautions and wash skin and clothing after contact

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.

Information furnished by: M. Hall & H. Conrad, Date: May 4, 1989

Chilean Nitrate Corporation

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