FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 743.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Sodium Nitrate

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Sodium Nitrate

Synonym: Chile saltpeter CAS#: 7631-99-4

Section 3 — Hazards Identification

Colorless, odorless, transparent crystals or white prills.

Slightly toxic by ingestion. Body tissue irritant. Avoid all body tissue contact.

Strong oxidizer.

FLINN AT-A-GLANCE

Health-1 Flammability-0 Reactivity-3 Exposure-1 Storage-0

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable solid.

NFPA CODE

Strong oxidizer. Fire and explosion risk when in contact with combustible materials.

None Established

When heated to decomposition, emits toxic fumes of NOx and Na2O.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE

and SCBA with full facepiece operated in positive mode.

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates and nitrites. Store in a cool dry place. Use and dispense in a hood.

<u>Section 8 — Exposure Controls , Personal Protection</u>

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

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Section 9 — Physical and Chemical Properties

Colorless, odorless, transparent crystals.

Solubility: Soluble in water and glycerol; slightly in alcohol.

Formula: NaNO3 Formula Weight: 85.00 Specific Gravity: 2.267 Melting Point: 308 C Boiling Point: 380 C (dec.)

Section 10 — Stability and Reactivity

Avoid contact with strong reducers, strong acids, combustible materials, finely powdered metals, friction and shock.

Shelf life: Indefinite.

Section 11 — Toxicological Information

Acute effects: Toxic, irritant ORL-RAT LD50: 3236 mg/kg

Chronic effects: Anemia, methemolglobinemia, nephritis.

Target organs: Blood, central nervous system

IHL-RAT LC50: N.A.

SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

N/A = Not applicable

Section 13 — Disposal Considerations

Please consult with state and local regulations. Flinn Suggested Disposal Method #26a is one option.

Section 14 — Transport Information

Shipping Name: Sodium nitrate Hazard Class: 5.1, Oxidizer UN Number: UN1498

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-554-3), RCRA code D001.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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Flinn MSDS Prevent Chemical Accidents

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