

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 640.00

Revision Date: December 22, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potassium 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

Potassium Nitrate

CAS#: 7757-79-1

SECTION 3 — HAZARDS IDENTIFICATION

Transparent, colorless crystals or powder. Odorless.
Slightly toxic by ingestion. Irritating to body tissues. Avoid body tissue contact.
Chronic exposure to small amounts can cause anemia, nephritis, methemoglobinemia.
Strong oxidizer: Fire risk when in contact with combustible materials.

FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-3

Exposure-1

Storage-1

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

Nonflammable solid.
Strong oxidizer. Dangerous fire risk if shocked or heated. Avoid contact with organic materials.
When heated to decomposition, emits toxic fumes of NO_x and K₂O.
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None
established

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. Store in a Flinn Chem-Saf Bag.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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.

FLINN SCIENTIFIC, INC.**Material Safety Data Sheet Potassium Nitrate****MSDS #: 640.00****Revision Date:** December 22, 2010**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Transparent, colorless crystals or powder. Odorless.

Solubility: Soluble in water; slightly in alcohol.

Formula: KNO_3

Formula Weight: 101.11

Melting Point: 333 °C

Specific Gravity: 2.1062

SECTION 10 — STABILITY AND REACTIVITY

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

Shelf life: Good.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant

Chronic effects: N.A.

Target organs: Blood, central nervous system

ORL-RAT LD_{50} : 3750 mg/kgIHL-RAT LC_{50} : N.A.SKN-RBT LD_{50} : 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.

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: Potassium Nitrate

Hazard Class: 5.1, Oxidizer

UN Number: UN1486

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-818-8), RCRA code D001.

SECTION 16 — OTHER INFORMATION

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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

**Consult your copy of the *Flinn Science Catalog/Reference Manual*
for additional information about laboratory chemicals.**