

SDS #: 640

Revision Date: March 31, 2016

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# Potassium Nitrate Safety Data Sheet (SDS)

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Potassium Nitrate**

Signal Word WARNING

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

Chemtrec Emergency Phone Number: (800) 424-10170

Pictograms

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing solids (Category 3). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

## SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium nitrate	7757-79-1	KNO <sub>3</sub>	101.11	
Synonyms: Saltpeter; Nitrate of potash				

#### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

## SECTION 5 — FIRE FIGHTING MEASURES

Strong oxidizer. Dangerous fire risk if shocked or heated. Avoid contact with organic materials.	NFPA Code
Potassium nitrate decomposes on heating producing nitrogen oxides, oxygen, which increases	H: 1
fire hazard	F: 0
In case of fire: Use a tri-class dry chemical fire extinguisher.	R: 0
	OX

Hazardous combustion products: Not combustible but enhances combustion of other substances. Gives off irritating or toxic fumes (or gases) in a fire.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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, nitrites and azides. Slightly hygroscopic. Store in a Flinn Chem-Saf<sup>TM</sup> bag in a cool, dry place. Keep away from combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221).

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Transparent, colorless crystals or powder. Odorless. Melting point: 333 °C Boiling point: 400 °C

Soluble: Water and glycerin. Slightly in alcohol. (decomposes)

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, slightly hygroscopic. See Section 7 for further information.

Hazardous decomposition products: KNO3 decomposes on heating producing nitrogen oxides, oxygen, which increases fire hazard

## SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant ORL-RAT LD<sub>50</sub>: 3750 mg/kg
Chronic effects: N.A. IHL-RAT LC<sub>50</sub>: N.A.
Target organs: Blood, central nervous system SKN-RBT LD<sub>50</sub>: N.A.

### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Potassium Nitrate. Hazard class: 5.1, Oxidizer. UN number: UN1486.

#### SECTION 15 — REGULATORY INFORMATION

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

#### SECTION 16 — OTHER INFORMATION

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