

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potassium

Signal Word  
**DANGER**

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

Chemtrec Emergency Phone Number: (800) 424-10132

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Substances and mixtures which, in contact with water, emit flammable gases (Category 1). In contact with water releases flammable gases which may ignite spontaneously (H260). Handle under inert gas. Protect from moisture (P231+232).



Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314).



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium	2023695	K	39.1	

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

**If inhaled:** Remove victim to fresh air in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If on skin:** Brush off loose particles from skin (P335). Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

**If swallowed:** Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

### SECTION 5 — FIRE FIGHTING MEASURES

Flammable solid. Dangerous fire risk; reacts violently with moisture evolving much heat, spattering and flammable hydrogen gas. Very difficult to extinguish a potassium fire.

In case of fire: Use Class D, Met-L-X, or dry sand as a fire extinguisher. Avoid water contact, violent reaction with water.

NFPA Code

H-3

F-3

R-2

No Water

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Restrict unprotected personnel from area. Remove all ignition sources and water. Coat with mineral oil, carefully pick up and place in a bottle with clean, dry mineral oil. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

Store under oil in a PVC coated glass bottle in a Flinn Chem-Saf™ can. Keep away from water and handle with dry utensils.

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

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Soft, silvery metal when fresh. Older potassium may be covered with a soft, spongy coating which could be an explosive peroxide.	Melting point: 63.2 °C
	Specific gravity: 0.862
	Boiling point: 759 °C

Soluble: Do not attempt to place in solution.

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with oxidizers, Teflon, chlorinated solvents, water, acids.

Shelf life: Poor. Avoid contact with moisture. See Section 7 for further information.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Corrosive	ORL-RAT LD <sub>50</sub> : N.A.
Chronic effects: N.A.	IHL-RAT LC <sub>50</sub> : N.A.
Target organs: N.A.	SKN-RBT LD <sub>50</sub> : N.A.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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

Flinn Suggested Disposal Method #3 is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Potassium. Hazard class: 4.3, Dangerous when wet. UN number: UN2257. Packing group I

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (231-119-8), RCRA code D001, D002, D003.

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**SECTION 16 — OTHER INFORMATION**

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

N/A = Not applicable

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

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