

## Potassium Chlorate Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Potassium Chlorate

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-10145

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing liquids (Category 1). May cause fire or explosion; strong oxidizer (H271). Do not spray on an open flame or other ignition source (P211).



Hazard class: Acute toxicity, oral and inhalation (Category 4). Harmful if swallowed or inhaled (H302+H332). Do not eat, drink or smoke when using this product (P270). Avoid breathing dust or fumes (P261).



Hazard class: Skin corrosion or irritation (Category 3). Causes mild skin irritation (H316).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name                         | CAS Number | Formula           | Formula Weight | Concentration |
|--|------------|-------------------|----------------|---------------|
| Potassium chlorate                     | 698078     | KClO <sub>3</sub> | 122.56         |               |
| Synonyms: Chloric acid, potassium salt |            |                   |                |               |

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Remove victim to fresh air and keep at rest 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 eye irritation persists eyes:** Get medical advice or attention (P337+P313).

**If skin irritation occurs:** Get medical advice or attention (P332+P313).

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

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid. Strong oxidizer. Forms explosive mixtures with combustible materials. If only slightly contaminated, will explode when exposed to moderate shock or when heated.

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code

H-1

F-0

R-1

OX

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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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.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #6. Store with chlorates, bromates, iodates, chlorites, perchloric acid, and peroxides. Forms explosive mixtures with combustible materials. If only slightly contaminated, will explode when exposed to moderate shock or when heated. Keep container tightly closed. Keep and store away from clothing and combustible materials (P220). Use only in a hood or well-ventilated area (P271).

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

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Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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|-------------------------------------|-------------------------|
| White crystals or powder. Odorless. | Melting point: 368 °C   |
| Soluble: Boiling water              | Specific gravity: 2.337 |

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**SECTION 10 — STABILITY AND REACTIVITY**

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

Shelf life: Indefinite, if stored safely. See Section 7 for further information.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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|--------------------------------------|---------------------------------------|
| Acute effects: Irritant              | ORL-RAT LD <sub>50</sub> : 1870 mg/kg |
| Chronic effects: Anemia              | IHL-RAT LC <sub>50</sub> : N.A.       |
| Target organs: Blood, liver, kidneys | 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 #12a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Potassium Chlorate; Hazard class: 5.1, Oxidizer; UN number: UN1485

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (223-289-7), RCRA code D001, D003.

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**SECTION 16 — OTHER INFORMATION**

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STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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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