Safety Data Sheet (SDS)

Product Name: Potassium Chloride
CAS Number: 7447-40-7
EC Number: 231-211-8
Molecular Formula: KCl
Molecular Weight: 74.55 g/mol

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1. Identification

Product identifier
Potassium Chloride

Synonyms
Potassium chloride
KCl
Muriate of potash

Recommended use
Laboratory chemical, analytical reagent, calibration material, technical compound for research and laboratory use.

Supplier
Rexar
Genestetstraat 3
2394 XK Hazerswoude Rijndijk
Netherlands
info@rexar.nl

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2. Hazard Identification

Classification according to Regulation (EC) No. 1272/2008 (CLP)
Not classified as hazardous according to CLP criteria.

Label elements
No hazard pictogram required.

Signal word
None

Hazard statements
None

Precautionary statements
P264 Wash hands thoroughly after handling.

P280 Wear appropriate protective equipment when handling laboratory chemicals.
P270 Do not eat, drink or smoke when using this product.

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3. Composition / Information on Ingredients

Substance
Potassium Chloride

CAS Number
7447-40-7

EC Number
231-211-8

Purity
Typically ≥ 99 %

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4. First Aid Measures

General advice
Remove contaminated clothing. Seek medical advice if symptoms persist.

Inhalation
Move person to fresh air. Seek medical attention if irritation develops.

Skin contact
Wash skin thoroughly with soap and water.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Ingestion
Rinse mouth with water. Seek medical advice if discomfort occurs.

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5. Fire Fighting Measures

Suitable extinguishing media
Water spray, dry chemical powder, carbon dioxide or foam.

Specific hazards
Thermal decomposition may produce potassium oxides and hydrogen chloride.

Protective equipment
Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.

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6. Accidental Release Measures

Personal precautions
Use appropriate personal protective equipment. Avoid dust formation.

Environmental precautions
Prevent large quantities from entering drains or waterways.

Methods for cleanup
Sweep up material carefully and place in suitable container for disposal.

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7. Handling and Storage

Handling
Handle in accordance with good laboratory practice. Avoid unnecessary dust formation.

Storage
Store in a cool, dry and well-ventilated area. Keep container tightly closed.

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8. Exposure Controls / Personal Protection

Engineering controls
Use adequate ventilation.

Personal protective equipment

Eye protection
Safety glasses or chemical splash goggles

Skin protection
Protective gloves

Respiratory protection
Dust mask recommended when dust is generated.

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9. Physical and Chemical Properties

Appearance
White crystalline powder or crystals

Odor
Odorless

Melting point
770 °C

Boiling point
1413 °C

Density
1.984 g/cm³

Solubility
330 g/L in water (20 °C)

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10. Stability and Reactivity

Stability
Stable under recommended storage conditions.

Conditions to avoid
Excessive heat and moisture exposure.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
Potassium oxides and hydrogen chloride.

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11. Toxicological Information

Acute toxicity
Not classified as acutely toxic at typical laboratory exposure levels.

Skin irritation
May cause mild irritation through prolonged exposure.

Eye irritation
Dust may cause mechanical irritation.

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12. Ecological Information

Ecotoxicity
No significant environmental hazard expected at typical laboratory quantities.

Persistence and degradability
Naturally occurring inorganic salt.

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13. Disposal Considerations

Dispose of material in accordance with local, regional and national regulations through licensed chemical waste handlers.

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14. Transport Information

UN number
Not regulated for transport.

Transport hazard class
Not classified as dangerous goods for ADR, IMDG or IATA.

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15. Regulatory Information

Classification according to EU CLP Regulation (EC) No. 1272/2008.

Not classified as hazardous.

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16. Other Information

This Safety Data Sheet is provided for laboratory safety guidance.

The product is supplied as a chemical substance for analytical, technical or research applications only.

Not intended for human or animal consumption or for medical use.