



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Potassium Nitrate
- Product Number: KNO-20260212
- Brand: SIGALD
- CAS-No.: 7757-79-1
- Synonyms: Nitre; Saltpeter

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses

- Identified Uses: Fertilizer (nitrogen-potassium source), food additive (preservative, curing agent), pyrotechnics, chemical synthesis, laboratory reagent.
- Uses Advised Against: Unauthorized use in explosives; excessive use in food.

SECTION 2: Hazards Identification

2.1 GHS Classification: Oxidizing solid (Category 3); Eye irritation (Category 2A); Skin irritation (Category 2)
2.2 GHS Label Elements

- Hazard Pictogram: GHS03 (Oxidizer), GHS07 (Exclamation mark)
- Signal Word: Warning
- Hazard Statements: H272 (May intensify fire; oxidizer), H315 (Causes skin irritation), H319 (Causes serious eye irritation)
- Precautionary Statements: P210 (Keep away from heat/sparks/open flames), P220 (Keep away from combustible materials), P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/eye protection), P305+P351+P338 (If in eyes: Rinse cautiously with water)

SECTION 3: Composition

- Substance: Pure Substance
- Formula: KNO_3
- Molecular Weight: 101.10 g/mol
- Concentration: $\geq 99.0\%$ (KNO_3)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If discomfort persists, consult a doctor.



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- Skin Contact: Rinse skin with plenty of running water for 10 minutes.
- Eye Contact: Rinse eyes thoroughly with running water for 15 minutes. Consult a doctor if irritation remains.
- Swallowed: Rinse mouth with water. Do not induce vomiting. Seek medical advice.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry powder.
- Special Hazards: Oxidizer, may intensify fire. Decomposes at high temperature, releasing toxic nitrogen oxides.
- Firefighter Protection: Wear full protective equipment and breathing apparatus.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear gloves, eye protection.
- Cleanup Methods: Sweep up, transfer to sealed containers. Avoid contact with combustibles.

SECTION 7: Handling and Storage

- Handling: Avoid mixing with combustibles, reducing agents. Wash hands after use.
- Storage: Store in cool, dry area. Keep away from heat, sparks, open flames. Separate from combustibles.
- Shelf Life: 36 months (unopened, proper storage).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, safety goggles.
- Engineering Controls: Good ventilation.

SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline powder/granules
- Color: White
- Odor: Odorless
- Melting Point: 334°C
- Boiling Point: Decomposes at 400°C
- Solubility: Soluble in water (316 g/L at 20°C)
- pH (10% solution): 5.5-8.0
- Density: 2.109 g/cm³ (25°C)
- Flash Point: Not applicable (oxidizer)

SECTION 10: Stability and Reactivity

- Stable under normal conditions. Incompatible with combustibles, reducing agents, acids.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): 3750 mg/kg
- Skin Irritation: Mild to moderate irritation.

SECTION 12: Ecological Information

- Aquatic Toxicity: Low toxicity to aquatic organisms.
- Biodegradability: Not biodegradable.



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SECTION 13: Disposal Considerations

- Dispose in accordance with local regulations. Do not mix with combustible waste.

SECTION 14: Transport Information

- UN Number: UN1486
- Transport Hazard Class: 5.1 (Oxidizing substances)
- Packaging Group: III

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, FDA (for food grade) regulations.

SECTION 16: Other Information

- Revision Date: 12 FEB 2026

