


SAFETY DATA SHEET (SDS)

- **Product Name:** SuperKS (50% KCl / 35% Sulphur / 15% Compost)
- **Date of Issue:** 2025-05-29
- **Version:** 2.0

SECTION 1: Identification

- **Product Identifier:** SuperKS (50% KCl / 35% Sulphur / 15% Compost)
- **Recommended Use:** Agricultural fertilizer
- **Restrictions on Use:** Not intended for human or animal consumption
- **Supplier Identifier:**
 - Replenish Nutrients Ltd.
 - 211 5th Ave, Beiseker, Alberta T0M0G0
 - info@replenishnutrients.com
- **Emergency Phone Number:** 911

SECTION 2: Hazard Identification

- **Classification (GHS):**
 - **Eye irritation** (Category 2B)
 - **Skin irritation** (Category 2)
 - **Combustible dust** (if finely divided sulfur)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin and eye irritation
 - May form combustible dust concentrations in air
- **Pictograms:**

- **Precautionary Statements:**
 - Avoid breathing dust
 - Wear protective gloves/eye protection
 - Wash hands thoroughly after handling

SECTION 3: Composition/Information on Ingredients

- **Chemical Name_% by Weight_CAS Number**
 - Potassium chloride_50%_7447-40-7
 - Elemental sulfur_35%_7704-34-9
 - Compost (organic matter)_15%_NA

SECTION 4: First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Get medical attention if irritation develops.
- **Eye Contact:** Rinse with water for several minutes. Remove contact lenses if present.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice if large amounts are ingested.
- **Symptoms:** Skin/eye irritation, coughing from dust.

SECTION 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, CO₂. Do not use water on burning sulfur.
- **Hazards from Combustion:** Sulfur dioxide gas may form.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

- Avoid dust formation. Sweep or vacuum material and place in container for reuse or disposal.
- Wear appropriate PPE. Avoid runoff into drains or water sources.

SECTION 7: Handling and Storage

- Handle in well-ventilated areas to minimize dust.
- Store in cool, dry place away from heat sources and oxidizers.
- Keep containers tightly closed when not in use.

SECTION 8: Exposure Controls / Personal Protection

Components and Exposure Limits (ACGIH TLV)

- **Potassium chloride:** None established
- **Elemental sulfur:** None established (nuisance dust: 10 mg/m³ total)
- **Engineering Controls:** Local exhaust ventilation for dust control.
- **PPE:** Gloves, goggles, dust mask or respirator if airborne dust is present.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Yellowish-brown granular or powder blend
- **Odour:** Mild earthy/organic
- **pH:** 6-8
- **Melting Point:** > 100°C (Sulfur ~115°C)
- **Boiling Point:** Not applicable
- **Solubility (Water):** Partial (KCl is soluble; others are not)
- **Flammability:** Combustible (due to sulfur)
- **Vapour Pressure:** Not applicable

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, sparks, open flames
- **Incompatible Materials:** Oxidizing agents, strong acids
- **Hazardous Decomposition:** Sulfur oxides (e.g., SO₂)

SECTION 11: Toxicological Information

- **Likely Routes of Exposure:** Inhalation, skin, eye, ingestion
- **Acute Effects:** Skin/eye irritation, dust inhalation may cause respiratory irritation
- **Chronic Effects:** None known under normal use
- **LD₅₀ (oral, rat):**
 - KCl: ~2,600 mg/kg
 - Sulfur: >5,000 mg/kg

SECTION 12: Ecological Information

- Product is not expected to pose acute environmental hazards in normal agricultural use.
- Avoid runoff to waterways due to potential nutrient loading.

SECTION 13: Disposal Considerations

- Dispose of in accordance with local/provincial/federal regulations.
- Do not dispose in waterways or sewer systems.

SECTION 14: Transport Information

- Not regulated under Canadian Transportation for Dangerous Goods regulations for typical quantities.
- If transported in bulk, sulfur dust risk should be considered (Class 4.1 – Flammable Solid, if applicable).

SECTION 15: Regulatory Information

- This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations (HPR) under the Workplace Hazardous Materials Information System (WHMIS 2015), which aligns with the Globally Harmonized System (GHS) of Classification and Labelling of Chemicals.
- All components are listed on the Canadian DSL (Domestic Substances List)
- Product is classified under WHMIS 2015

SECTION 16: Other Information

- **DISCLAIMER:** The information contained in this SDS is believed to be accurate and is provided in good faith, but no warranty, express or implied, is made with respect to its accuracy or completeness. It is the responsibility of the user to ensure that the product is used and handled in accordance with applicable laws and regulations.
- **SDS Preparation Date:** 2025-05-29
- **Prepared by:** Replenish Nutrients Ltd.
- **Revision History:** V2.0