





**Eye Contact**..... Flush immediately with copious amounts of water. Forcibly hold eyelids open to ensure complete irrigation of the eye tissue.

**Ingestion**..... Do not induce vomiting if swallowed. Give large quantities of water through mouth if conscious. Seek medical attention.

**Additional Information**..... Not available.

**NFPA Ratings**..... Health-1 Flammability- 0 Reactivity- 0

**Section 05 - Fire Fighting Measures**

**Conditions of Flammability**..... Not flammable

**Means of Extinction**..... Use appropriate media for surrounding fire (water, chemical foam, dry chemical, or carbon dioxide)

**Flash Point**..... Not applicable

**Auto-ignition Temperature**..... Not applicable

**Upper Flammable Limit**..... Not applicable

**Lower Flammable Limit**..... Not applicable

**Hazardous Combustible Products**..... May release sulphur dioxide and sulphur trioxide when heated in a fire.

**Special Fire Fighting Procedures**..... Wear NIOSH-approved self-contained breathing apparatus and protective clothing. Use water spray to cool structures and containers exposed to fire.

**Explosion Hazards**..... Not available

**Section 06 – Accidental Release Measures**

**Leak / Spill**..... Wear appropriate personal protective equipment. Ventilate area of spill; sweep up any spilt material and dispose off in an appropriate container. Flush area with water to remove any residue.

**Deactivating Materials**..... Not available.

**Section 07 – Handling and Storage**

**Handling Procedures**..... Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid situations that could lead to harmful exposure.

**Storage Requirements**..... Store in a cool, dry, ventilated area away from heat, moisture, and incompatible substances.



## Section 08 – Personal Protection and Exposure Controls

### Protective Equipment

- Eyes**..... Safety glasses should be worn at all times. Full-face shield offers higher degree of protection. Contact lenses should not be worn as they may contribute to eye injury.
- Respiratory**..... An effective dust mask, preferably a half-face dust/mist respirator, should be worn where dust or mist is present.
- Gloves**..... Gloves should be worn to prevent skin contact.
- Clothing**..... Protective clothing or coveralls should be worn to prevent skin contact. Wash contaminated clothing with soap and water, dry thoroughly before reuse.
- Footwear**..... Safety footwear should be worn as needed.

### Engineering Controls /

- Ventilation Requirements**..... Good industrial hygiene practices. Mechanical ventilation (general or local exhaust) is recommended to keep exposures as low as possible. Supply sufficient replacement air to make up for air removed by exhaust systems.
- Other**..... Emergency shower and eyewash stations should be in reasonable proximity to work area.

## Section 09 – Physical and Chemical Properties

- Physical State**..... Solid, Crystalline, Powder
- Appearance**..... Off-White to Beige / Pink or Brown powder / granules
- Odour**..... None
- Odour Threshold**..... Not available
- Specific Gravity**..... 2.66 (water = 1.0)
- Vapour Pressure**..... Not available
- Vapour Density**..... Not available
- Evaporation Rate**..... Not available
- Boiling Point**..... Not applicable
- Melting Point**..... 1069°C (1956°F)
- Solubility in Water**..... 11% at 20°C
- pH**..... 7 – 9 (50 g/l in water at 20°C)
- % Volatiles by volume**..... None
- Bulk Density (loose)**..... 1200-1458 kg/m<sup>3</sup>
- Molecular Formula**..... K<sub>2</sub>SO<sub>4</sub>
- Molecular Weight**..... 174.26

## Section 10 – Stability and Reactivity



**Stability**..... Stable under normal conditions

**Incompatibility**..... Avoid strong oxidizing agents, chlorine, and nitric acid. Vigorous reaction will occur when potassium sulphate is melted with aluminium or magnesium.

**Hazardous Products of Decomposition**..... Decomposition products include sulphur dioxide, sulphur trioxide.

**Polymerization**..... Will not occur.

**Section 11 – Toxicological Information**

**Irritancy**..... Irritant to strong irritant.

**Sensitization**..... Not available.

**Chronic / Acute Effects**..... Repeated and prolonged exposure target organ damage, exposure of the eyes to low level dust can produce irritation, repeated skin exposure can produce irritation, sensitization, dermatitis, or localized skin damage. Repeated inhalation of dust can produce varying degrees of respiratory irritation, lung damage, and chronic respiratory irritation.

**Synergistic Materials**..... Not available.

**Animal Toxicity Data**..... LD<sub>50</sub>(oral, rat) = 6600 mg / kg.

**Carcinogenicity**..... Not listed as carcinogenic (IARC and ACGIH).

**Reproductive Toxicity**..... Not available.

**Teratogenicity**..... Not available.

**Mutagenicity**..... Not available.

**Section 12 – Ecological Information**

**Fish Toxicity**..... Not available.

**Biodegradability**..... Hazardous short-term degradation products are not likely.

**Environmental Effects**..... Not available.

**Section 13 – Disposal Consideration**

**Waste Disposal**..... Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

**Section 14 – Transportation Information**



Not regulated.

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| <b>Section 15 – Regulatory Information</b> |
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**Note:** The product listed on this MSDS has been classified in accordance with the hazard criteria of the Canadian controlled products regulations. This MSDS contains all information required by those regulations.

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| <b>Section 16 – Other Information</b> |
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**Note:** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations. Although reasonable care has been taken in the preparation of such information, Pestell Minerals & Ingredients makes no warranties, makes no representations, and assumes no responsibility for the accuracy or suitability of such information for application to the purchaser's intended purposes or for the consequences of its use.