

MATERIAL SAFETY DATA SHEET (MSDS)

1. POTASSIUM CHLORIDE SAFETY DATA SHEET MSDS

- **Product Name** : Potassium chloride KCL TM is the chemical compound of potassium chloride
- **CAS Number** : 7447-40-7
- **Chemical Formula** : KCl is a metal halide salt composed of potassium and chlorine
- **APPEARANCE** : White crystals or powder, in its pure state, it is odorless.
- **PH** : 7 at saturated aqueous solution at 70 degree F.

2. HAZARDS IDENTIFICATION

- Slightly hazardous in case of skin contact (irritant),
- In case of eye contact (irritant),
- Slightly hazardous in ingestion, of inhalation

3. TOXICITY

- **TOXICITY**: Not available. The substance is non-toxic but it may be toxic to blood, cardiovascular system

4. FIRST AID MEASURES

- **Eye Contact:**
 - Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
- **Skin Contact:**
 - Wash with soap and water.
 - Cover the irritated skin with an emollient. Get medical attention if irritation develops.
 - Cold water may be used.
 - Serious Skin Contact: Not available.
- **Inhalation:**
 - If inhaled, remove to fresh air.
 - If not breathing, give artificial respiration.
 - If breathing is difficult, give oxygen. Get medical attention.
 - Serious Inhalation: Not available.
- **Ingestion:**
 - Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
 - Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
- **Serious Ingestion**: Not available.

5. FIRE AND EXPLOSION DATA

- **Flammability of the Product**: Non-flammable.
- **Auto-Ignition Temperature**: Not applicable.
- **Flash Points**: Not applicable.
- **Flammable Limits**: Not applicable.
- **Products of Combustion**: Not available.
- **Fire Hazards in Presence of Various Substances**: Not applicable.
- **Explosion Hazards in Presence of Various Substances:**
 - ✓ Risks of explosion of the product in presence of mechanical impact: Not available.
 - ✓ Risks of explosion of the product in presence of static discharge: Not available.
 - ✓ Slightly explosive in presence of oxidizing materials.
- **Special Remarks on Fire Hazards**: Not available.

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6. ACCIDENTAL RELEASE MEASURES

- **Minor Spill:**
 - Use appropriate tools to put the spilled solid in a convenient waste disposal container.
 - Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- **Large Spill:**
 - Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system

7. HANDLING AND STORAGE

- **Precautions:**
 - Do not ingest.
 - Do not breathe dust.
 - If ingested, seek medical advice immediately and show the container or the label.
 - Keep away from incompatibles such as oxidizing agents, acids, moisture.
- **Storage:**
 - Keep KCL pallets or big bags tightly isolated
 - Keep container in a cool, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Engineering Controls:**
 - Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
 - If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- **Personal Protection:**
 - Safety glasses. Apron. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
- **Personal Protection in Case of a Large Spill:**
 - Splash goggles.
 - Full suit. Dust respirator.
 - Boots.
 - Gloves.
 - A self-contained breathing apparatus should be used to avoid inhalation of the product.
- **Exposure Limits:** Not available

9. WASTE AND DISPOSAL

- Waste must be disposed of in accordance with federal, state and local environmental control regulations

10. STABILITY AND REACTIVITY

- **Stability:** The KCL product is stable.
- **Instability Temperature:** Not available.
- **Conditions of Instability:** Incompatible materials
- **Incompatibility with various substances:** Reactive with oxidizing agents, acids.
- **Corrosivity:** Non-corrosive
- **Special Remarks on Reactivity:**
 - Hygroscopic.
 - Incompatible with KMnO_4 , H_2SO_4 , BrF_3 , and BrCl_3 ,

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- May react violently with BrF₃.
- **Polymerization:** Will not occur

11.SPECIAL RECOMMENDATIONS

- **Other Special Considerations:** Not available

