



LABORATORY CHEMICALS AND CONSUMABLES

# MATERIAL SAFETY DATA SHEET

## POTASSIUM SODIUM TARTRATE

### 1. Chemical Product and Company information.

**Product name:** Potassium Sodium Tartrate

**Contact Information:**

Radchem cc  
PO Box 166982  
Brackendowns  
Alberton 1454  
Telephone : **011 867 3726 / 2864**

### 2. Hazard Identification

Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.

### 3. Composition / information on ingredients

**CAS #:** 6381-59-5

**Synonym:** Rochelle salt; Sodium Potassium Tartrate tetrahydrate; L(+)-Tartaric acid potassium sodium salt

**Chemical Name:** Butanedioic acid, 2,3-dihydroxy-[R-(R\*,R\*)]-, mono potassium monosodium salt tetrahydrate

**Chemical Formula:** KNaC<sub>4</sub>H<sub>4</sub>O<sub>6</sub>.4H<sub>2</sub>O

### 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 if irritation occurs.

**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. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available

### **5. Fire-fighting measures**

**Flammability of the Product:** May be combustible at high temperature.

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

**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.

**Fire Fighting Media and Instructions:** SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available

**Special Remarks on Explosion Hazards:** Not available

### **6. Accidental release measures**

**Small 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 to evacuate through the sanitary system.

### **7. Handling and storage**

**Precautions:** Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents, acids.

**Storage:** Keep container tightly closed. 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. Lab coat. 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. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.



<p><b><u>9. Physical and chemical properties</u></b></p> <p><b>Physical state and appearance:</b> Solid (Translucent or white crystals)</p> <p><b>Odour:</b> Not available</p> <p><b>Taste:</b> Saline</p> <p><b>Colour:</b> translucent or white</p> <p><b>Boiling Point:</b> Not available</p> <p><b>Melting Point:</b> 70°C - 80 C</p> <p><b>Critical Temperature:</b> Not available</p> <p><b>Specific Gravity:</b> Density: 1.79 (Water = 1)</p> <p><b>Vapour Density:</b> Not available</p> <p><b>Volatility:</b> Not available</p>	<p><b>Odour Threshold:</b> Not available</p> <p><b>Ionicity (in Water):</b> Not available.</p> <p><b>Dispersion Properties:</b> See solubility in water</p> <p><b>Solubility:</b> Soluble in cold water, hot water. Almost insoluble in alcohol</p>
<p><b><u>10. Stability and reactivity</u></b></p> <p><b>Stability:</b> The product is stable.</p> <p><b>Instability Temperature:</b> Not available.</p> <p><b>Conditions of Instability:</b> Excess heat, incompatible materials, dust generation</p> <p><b>Incompatibility with various substances:</b> Reactive with oxidizing agents, acids.</p> <p><b>Corrosivity:</b> Non-corrosive in presence of glass.</p> <p><b>Special Remarks on Reactivity:</b> Slightly effloresces in warm air. At 100 deg. C, it loses 3 H<sub>2</sub>O. It becomes anhydrous at 130-140 deg. C. It begins to decompose at 220 deg. C. It is incompatible with calcium or lead salts, magnesium sulphate, and silver nitrate.</p> <p><b>Special Remarks on Corrosivity:</b> Not available</p> <p><b>Polymerization:</b> Will not occur.</p>	
<p><b><u>11. Toxicological information</u></b></p> <p><b>Routes of Entry:</b> Inhalation. Ingestion</p> <p><b>Toxicity to Animals:</b> LD50: Not available. LC50: Not available.</p> <p><b>Chronic Effects on Humans:</b> Causes damage to the following organs: mucous membranes.</p> <p><b>Other Toxic Effects on Humans:</b> Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of ingestion.</p> <p><b>Special Remarks on Toxicity to Animals:</b> Not available</p> <p><b>Special Remarks on Chronic Effects on Humans:</b> Not available</p>	



**Special Remarks on other Toxic Effects on Humans:** Acute Potential Health Effects: Skin: May cause skin irritation. It is considered a low hazard for usual industrial handling. Eyes: May cause mechanical eye irritation. Inhalation: Causes respiratory tract irritation. Ingestion: May cause digestive tract irritation. It is considered a low hazard for usual industrial handling. The toxicological properties of this substance have not been fully investigated.

## **12. Ecological information**

**Ecotoxicity:** Not available

**BOD5 and COD:** Not available

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available

## **13. Disposal considerations**

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## **14. Transport information**

**DOT Classification:** Not a DOT controlled material

**Identification:** : Not applicable

**Special Provisions for Transport:** Not available

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