

Material Safety Data Sheet

Section 1 – Product and Company Identification

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| Product Name | Potassium L-bitartrate |
| Chemical Name Synonyms | L-Tartaric acid Potassium L-tartrate monobasic Potassium L-tartrate monobasic L(+)-Tartaric acid monopotassium salt Potassium hydrogen L-tartrate Tartaric acid monopotassium salt |
| Chemical Formula | C ₄ H ₅ KO ₆ |
| Company Identification | Showa Kako Corporation 18-23, Yoshino-cho, Suita-city, Osaka 564-0054 JAPAN |
| Telephone Number | +81-6-6384-1501 |
| 24-hour Emergency Telephone Number | +81-6-6384-1501 |
| Fax Number | +81-6-6384-2287 |

Section 2 – Hazards Information

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| Not harmful if handled properly. Considered to be highly biodegradable. | |
| GHS Classification | Not classified |
| GHS Symbol | Not classified |
| Signal Word | Not classified |

Section 3 – Composition and Information on Ingredients

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|--------------------------|--------------------------------|
| Substance/Mixture | Substance |
| Chemical Name | Potassium L-tartrate monobasic |
| CAS # | 868-14-4 |
| Percent | 99.5% min |

Section 4 – First Aid Measures

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| Eyes | Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult an ophthalmologist. |
| Skin | Remove contaminated clothing and shoes. Flush skin with copious amount of water or warm water. Call a physician if necessary. |
| Ingestion | Wash out mouth with water. Give 1-2 cups of water or milk. Never give |

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| | anything by mouth to unconscious person. Call a physician. |
| Inhalation | Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician if necessary. |

Section 5 – Fire Fighting Measures

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|----------------------------------|--|---------------|
| Flash Point | No data found | |
| Autoignition | No data found | |
| Explosion Limits | Lower | No data found |
| | Upper | No data found |
| Extinguish Media | Water, powder, carbon dioxide, foam | |
| Firefighting Instructions | Avoid non-firefighting equipped personnel to enter. Extinguish upwind from the fire wearing appropriate protective gear. | |

Section 6 – Accidental Release Measures

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| Spills/ Leaks | Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilator area and wash spill site after material pickup is complete. |
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Section 7 – Handling and Storage

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| Handling | Wear appropriate protective gear. Do not contact with eyes, skin and on clothing. Do not inhale. Handle with care. Provide adequate ventilation. Wash mouth and hand after handling the material. |
| Storage | Keep container tightly closed. Avoid such conditions as direct sunlight, high temperature, high humidity and high piling. Store indoor at room temperature. |

Section 8 – Exposure Controls, Personal Protection

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| Engineering Controls | Facilities storing or utilizing the material should be equipped with an eye wash facilities and a safety shower. Use adequate ventilation to keep airborne concentrations low. |
| Exposure Limits | No data found |
| Personal Protective Equipment | |
| Eyes | Safety goggles |
| Skin | Rubber gloves |
| Clothing | Protective clothing and rubber boots |
| Respirators | Anti-dust mask |

Section 9 – Physical and Chemical Properties

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| Physical State | Crystal or crystalline powder |
| Appearance | Colorless, transparent or white |
| Odor | Odorless |
| Boiling Point | No data found |
| Melting Point | > 250 °C |
| Flash Point | No data found |
| Autoignition | No data found |
| Explosibility | None |
| Vapor Pressure | No data found |
| Density | 1.956 |
| Solubility | Soluble in water 0.57 g/100 ml at 20°C, 6.9 g/100 ml at 100°C |
| | Hardly soluble in alcohol |
| Molecular Weight | 188.18 |

Section 10 – Stability and Reactivity

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| Stability | Stable |
| Conditions to avoid | Direct sunlight, high temperature, high humidity and high piling |
| Incompatibilities with Other Material | Alkaline Metal |
| Hazardous Decomposition Product | None |
| Hazardous Polymerization | Will not occur |

Section 11 – Toxicological information

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|-----------------------------|---------------------------------------|
| RTECS # | No data found |
| LD50/ LC50 | oral-rat LDLo: 22 g/kg |
| Carcinogenicity | No data found |
| Mutagenicity | No data found |
| Reproductive Effects | No data found |
| Teratogenicity | No data found |
| Immunology | No data found |
| Irritation | May cause irritation to skin and eyes |

Section 12 – Ecological Information

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|-------------------------------|---------------|
| Ecotoxicity | No data found |
| Environmental Standard | No data found |

Section 13 – Disposal Consideration

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| Disposal Method | Federal (national), state or local laws and regulations will determine the proper waste disposal method. |
| Regulation Method | Federal (national), state or local laws and regulations |

Section 14 – Transport Information

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|----------------------|----------------|
| Shipping Name | Not applicable |
| Hazard Class | Not applicable |
| UN # | Not applicable |
| Packing Group | Not applicable |

Section 15 – Regulatory Information

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| United States | TSCA | On the list |
| EC | EINECS | 212-769-1 |
| Canada | WHMIS | No data found |
| Japan | PRTR law | Not on the list |

Section 16 – Other Information

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| MSDS Creation Date | August 29, 2013 |
| Revised Date | - |
| Revised No. | 1st |

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