

## Safety Data Sheet

### Section 1 – Product and Company Identification

|   |   |
|---|---|
| <b>Product Name</b>                       | Potassium stannate  |
| <b>Chemical Name</b>                      | Potassium stannate  |
| <b>Chemical Formula</b>                   | $K_2SnO_3 \cdot 3H_2O$  |
| <b>Company Identification</b>             | Showa Kako Corporation<br>18-23, Yoshino-cho, Suita-city, Osaka 564-0054<br>JAPAN |
| <b>Telephone Number</b>                   | +81-6-6384-1501   |
| <b>24-hour Emergency Telephone Number</b> | +81-6-6384-1501   |
| <b>Fax Number</b>                         | +81-6-6384-2287   |

### Section 2 – Hazards Information

|                                  |   |
|----------------------------------|---|
| <b>Toxicological Information</b> | Irritation to skin and mucous membrane, may cause inflammation. |
|----------------------------------|---|

### GHS Classification

Not classified

### Section 3 – Composition and Information on Ingredients

| Substance/Mixture  | Substance  |          |  |
|--------------------|------------|----------|--|
| Chemical Name      | CAS #      | Percent  |  |
| Potassium stannate | 12125-03-0 | 97% min. |  |

### Section 4 – First Aid Measures

|                   |   |
|-------------------|---|
| <b>Eyes</b>       | Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult with ophthalmologist.                               |
| <b>Skin</b>       | Immediately flush skin with copious amounts of water for at least 15 minutes.   |
| <b>Ingestion</b>  | Wash out mouth with water. Induce vomiting. Call a physician.   |
| <b>Inhalation</b> | 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

|                         |                                     |                     |              |
|-------------------------|-------------------------------------|---------------------|--------------|
| <b>Flash Point</b>      | No data found                       | <b>Autoignition</b> | None         |
| <b>Explosion Limits</b> | <b>Lower</b>                        | No data found       | <b>Upper</b> |
| <b>Extinguish Media</b> | Water, powder, carbon dioxide, foam |                     |              |

|                                  |   |
|----------------------------------|---|
| <b>Firefighting Instructions</b> | Avoid non-firefighting equipped personnel to enter.<br>Extinguish upwind from the fire wearing appropriate protective gear. |
|----------------------------------|---|

### Section 6 – Accidental Release Measures

|                      |  |
|----------------------|--|
| <b>Spills/ Leaks</b> | 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. |
|----------------------|--|

### Section 7 – Handling and Storage

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

### Section 8 – Exposure Controls, Personal Protection

|                                      |  |
|--------------------------------------|--|
| <b>Engineering Controls</b>          | 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. |
| <b>Exposure Limits</b>               | No data found  |
| <b>Personal Protective Equipment</b> |  |
| <b>Eyes</b>                          | Safety goggles   |
| <b>Skin</b>                          | Rubber gloves  |
| <b>Clothing</b>                      | Protective clothing and rubber boots   |
| <b>Respirators</b>                   | Anti-dust mask   |

### Section 9 – Physical and Chemical Properties

|                       |                    |
|-----------------------|--------------------|
| <b>Physical State</b> | Crystalline powder |
| <b>Appearance</b>     | White              |
| <b>Odor</b>           | Odorless           |
| <b>Boiling Point</b>  | No data found      |
| <b>Melting Point</b>  | No data found      |
| <b>Flash Point</b>    | No data found      |
| <b>Autoignition</b>   | None               |
| <b>Explosibility</b>  | None               |
| <b>Vapor Pressure</b> | No data found      |
| <b>Vapor Density</b>  | No data found      |

|                   |   |
|-------------------|---|
| <b>Solubility</b> | Soluble in water 106.7 g/ 100 g (at 10°C), 110.5 g/ 100 g (at 20°C) |
|                   | Insoluble in alcohol and acetone                                    |

### Section 10 – Stability and Reactivity

|  |  |
|--|--|
| <b>Stability</b>                             | Deliquescent (loses 3 molecules of crystal water at 140°C when heated) |
| <b>Conditions to avoid</b>                   | Direct sunlight, high temperature, high humidity and high piling       |
| <b>Incompatibilities with Other Material</b> | No data found  |
| <b>Hazardous Decomposition Product</b>       | No data found  |
| <b>Hazardous Polymerization</b>              | Will not occur   |

### Section 11 – Toxicological information

|                             |   |
|-----------------------------|---|
| <b>RTECS #</b>              | No data found                                     |
| <b>LD50/ LC50</b>           | Intravenous-mouse LD50: 178mg/ kg                 |
| <b>Carcinogenicity</b>      | No data found                                     |
| <b>Mutagenicity</b>         | No data found                                     |
| <b>Reproductive Effects</b> | No data found                                     |
| <b>Teratogenicity</b>       | No data found                                     |
| <b>Immunology</b>           | No data found                                     |
| <b>Irritation</b>           | May cause irritation to skin and mucous membrane. |

### Section 12 – Ecological Information

|                               |               |
|-------------------------------|---------------|
| <b>Ecotoxicity</b>            | No data found |
| <b>Environmental Standard</b> | No data found |

### Section 13 – Disposal Consideration

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

### Section 14 – Transport Information

|                      |                |
|----------------------|----------------|
| <b>Shipping Name</b> | Not applicable |
| <b>Hazard Class</b>  | Not applicable |
| <b>UN #</b>          | Not applicable |
| <b>Packing Group</b> | Not applicable |

### Section 15 – Regulatory Information

|                      |             |                 |
|----------------------|-------------|-----------------|
| <b>United States</b> | <b>TSCA</b> | Not on the list |
|----------------------|-------------|-----------------|

|               |                 |                 |
|---------------|-----------------|-----------------|
| <b>EC</b>     | <b>EINECS</b>   | No data found   |
| <b>Canada</b> | <b>WHMIS</b>    | No data found   |
| <b>Japan</b>  | <b>PRTR law</b> | Not on the list |

### **Section 16 – Other Information**

|                          |                |
|--------------------------|----------------|
| <b>SDS Creation Date</b> | March 29, 2010 |
| <b>Revised Date</b>      | July 16, 2015  |
| <b>Revised No.</b>       | Revised 4th    |

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