


# Safety Data Sheet (SDS)

## 1. Basic information of supplier :

|                       |  |      |               |
|-----------------------|--|------|---------------|
| English Name          | <b>POTASSIUM CARBONATE</b>   |      |               |
| Synonyms /Common name | <b>Salt of tartar; Pearl ash; Potash; Dipotassium salt; Carbonic acid salt; K-Gran Carbonate of potash</b> |      |               |
| Supplier's name       | Yee Fong Chemical & Industrial Co., Ltd.   |      |               |
| Supplier's Address    | No. 377 Hai Hu East Rd., Luzhu Dist., Taoyuan City, Taiwan   |      |               |
| Emergency Tel.        | 886-3-3541944  | Fax. | 886-3-3541957 |

## 2. Hazard Identification :

|                          |  |
|--------------------------|--|
| Classification (GHS)     | Acute Toxicity (Oral): Category 4<br>Skin Irritation: Category 2<br>Eye Irritation: Category 2A<br>STOT SE (Respiratory): Category 3   |
| Pictogram                |    |
| Signal Word              | Warning  |
| Hazard Statements        | <b>H302</b> Harmful if swallowed.<br><b>H315</b> Causes skin irritation.<br><b>H319</b> Causes serious eye irritation.<br><b>H335</b> May cause respiratory irritation.  |
| Precautionary Statements | <b>P261</b> Avoid breathing dust.<br><b>P264</b> Wash skin thoroughly after handling.<br><b>P271</b> Use only outdoors or in a well-ventilated area.<br><b>P280</b> Wear protective gloves/protective clothing/eye protection/face protection.   |
| Emergency Response       | <b>P302+P352</b> IF ON SKIN: Wash with plenty of water.<br><b>P304+P340+P312</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell.<br><b>P305+P351+P338</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.<br><b>P332+P313</b> If skin irritation occurs: Get medical advice.<br><b>P337+P313</b> If eye irritation persists: Get medical advice.<br><b>P362+P364</b> Take off contaminated clothing and wash before reuse. |
| Storage                  | <b>P403+P233</b> Store in a well-ventilated place. Keep container tightly closed.  |

|               |   |
|---------------|---|
|               | <b>P405</b> Store locked up.  |
| Disposal      | <b>P501</b> Dispose of contents/container in accordance with local/regional/national regulations. |
| Other Hazards | None  |

### 3. Composition / Information on Ingredients :

|                |                     |
|----------------|---------------------|
| Substance Name | Potassium Carbonate |
| CAS Number     | 584-08-7            |
| Purity         | 99%                 |

### 4. First Aid Measures :

**Inhalation:** Remove victim to fresh air. Seek medical attention.

**Skin Contact:** Remove contaminated clothing and rinse skin with lukewarm water for at least 20 minutes. Seek medical attention if irritation persists.

**Eye Contact:** Rinse eyes cautiously with water for at least 15–20 minutes. Seek medical attention immediately.

**Ingestion:** Do not induce vomiting. Rinse mouth and give 240–300 mL of water. Keep the patient leaning forward to prevent aspiration.

**Most Important Symptoms:** Irritation, burning, inflammation, and possible corrosive gastric spasms if ingested in large quantities.

**Protection for First Aid Personnel:-**

**Advice to Physician: -**

### 5. Fire-fighting Measures :

**Suitable Extinguishing Media:** Non-combustible; use suitable media for surrounding materials

**Specific Hazards: -**

**Special Firefighting Procedures: -**

**Special Protective Equipment: -**

### 6. Accidental Release Measures :

**Personal Precautions:** Restrict access, ventilate area, wear proper personal protective equipment, remove incompatible substances, stop leak if possible

**Environmental Precautions:** Contain spill, prevent entry into sewer system, collect for reuse or disposal, wash residue with water, absorb with sand/soil, neutralize with acid

**Clean-up Methods:** Dilute, neutralize and flush into wastewater system per regulations.

### 7. Handling and Storage Methods :

**Handling:** Operate in well-ventilated areas. Use personal protective equipment.

**Storage:** Store in tightly sealed containers in dry, cool areas away from incompatible materials like acids. Proper labeling required.

## 8. Exposure Prevention Measures :

**Engineering Controls:** Use corrosion-resistant local exhaust ventilation and general ventilation or fresh air intake system

**Control Parameters:** TWA: 2 mg/m<sup>3</sup>, STEL: 4 mg/m<sup>3</sup>

**Biological Indicators:-**

**Personal Protective Equipment:**

Respiratory: Dust/mist respirator

Hands: Rubber gloves

Eyes: Splash goggles

Skin/Body: Wear chemical-resistant clothing and safety boots

**Hygiene Measures:** Use certified personal protective equipment, inspect daily, replace if damaged, no contact lenses, no eating/drinking/smoking during work, wash hands after work, regular health exams

## 9. Physical & Chemical properties :

|   |  |
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| <b>Appearance:</b> White granular powder, hygroscopic | <b>Odor:</b> Odorless  |
| <b>Odor Threshold:</b> -                              | <b>Melting Point:</b> 891°C  |
| <b>pH:</b> 13 (1% solution)                           | <b>Boiling Point/Range:</b> Decomposes   |
| <b>Flammability (solid/gas):</b> -                    | <b>Flash Point:</b> Non-flammable  |
| Test Method: -  | <b>Decomposition Temperature:</b> -  |
| <b>Auto-Ignition Temperature:</b> -                   | <b>Explosion Limits:</b> -   |
| <b>Vapor Pressure:</b> Non-volatile                   | <b>Vapor Density:</b> -  |
| <b>Density:</b> -                                     | <b>Solubility:</b> 112 g/100 ml in water; insoluble in alcohol, acetone, ethanol |
| <b>Partition Coefficient (log Kow):</b> -             | <b>Evaporation Rate:</b> -   |

## 10. Stability & Reactivity :

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|---|
| <b>Stability:</b> Stable  |
| <b>Hazardous Reactions:</b> None under normal conditions                                  |
| <b>Conditions to Avoid:</b> Humidity; store in dry, ventilated areas                      |
| <b>Incompatible Materials:</b> Acids, water (absorbs moisture, exothermic, risk of burns) |
| <b>Hazardous Decomposition Products:</b> Carbon oxides (COx)                              |

## 11. Toxicological Information :

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| <b>Exposure Routes:</b> Inhalation (acute); Skin/eye contact and ingestion (chronic). |
| <b>Symptoms:</b> Skin irritation, itching, burning, inflammation.                     |
| <b>Acute Toxicity:</b> LD50 (oral): 3160 mg/kg.                                       |
| <b>Chronic or Long-Term Toxicity:</b> -   |

## 12. Ecological Information

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| <b>Ecotoxicity:</b> Ecotoxicity: LD50 (oral, rat) 1870 mg/kg. |
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|-------------------------------------|
| <b>Persistence/Degradability:</b> - |
| <b>Bioaccumulation:</b> -           |
| <b>Mobility in Soil:</b> -          |
| <b>Other Effects:</b> -             |

13、Disposal Considerations：

1. Dispose of waste in accordance with applicable environmental regulations.
2. Neutralize and dilute before discharge into the wastewater system.
3. Ensure compliance with local environmental laws.

14、Transport Information：

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| <b>UN number:</b> 1759   |
| <b>UN Proper Shipping Name:</b> Potassium Carbonate  |
| <b>Transport Hazard Class:</b> Class 8 (Corrosive Substances)  |
| <b>Packing Group:</b> III  |
| <b>Marine Pollutant:</b> -   |
| <b>Special Transport Measures and Precautions:</b> Keep container tightly closed. Protect from direct sunlight. Handle in accordance with relevant transportation regulations. |

15、Regulatory Information：

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| <b>Applicable Laws:</b><br>Occupational Safety and Health Facility Standards.<br>Standards for Storage and Disposal of Industrial Waste.<br>Road Traffic Safety Regulations. |
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16、Other Reference：

|             |  |             |
|-------------|--|-------------|
| Issue Dept. | Company name：Yee Fong Chemical & Industrial Co., Ltd.                            |             |
|             | Address：No.377 Hai Hu East Rd., Hai Hu, Luzhu Dist, Taoyuan City, Taiwan, R.O.C. |             |
|             | Tel：886-3-354-1944   |             |
| Issuer      | Hong-Yu Lin  |             |
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This SDS is based on the information available to Yee Fong Chemical and the Ministry of Labor GHS database. All data is for reference only. Users are responsible for judging its suitability for their specific needs. Not applicable to additives or mixtures.