**Richest Group**
No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Tel: 0086 21 5017 5386
E-mail: inquiry@richest-group.com
Web: www.richest-group.com

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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|---|---|---|---|
| **Product:** Tripotassium Citrate | **Revision date:** 2026-10-29 | **Version:** 1.0 | **Brand:** Richest |

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

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|---|---|
| **Product name** | Tripotassium Citrate |
| **Synonyms** | Potassium citrate; Citric acid tripotassium salt; E332 |
| **CAS No.** | 6100-05-6 |
| **EC No.** | 212-755-5 |
| **Molecular formula** | C6H5K3O7·H2O |
| **Molecular weight** | 324.41 g/mol |
| **Relevant identified uses** | Food additive (acidity regulator, sequestrant); industrial raw material |
| **Uses advised against** | None |
| **Company** | Richest Group Ltd. |
| **Address** | No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China |
| **Telephone** | +86 21 5017 5386 |
| **WhatsApp** | +86 13472638548 |
| **E-mail** | inquiry@richest-group.com |
| **Website** | www.richest-group.com |
| **Emergency telephone number** | +86 13472638548 |

## SECTION 2: Hazards identification

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|---|---|
| **GHS Classification** | Not classified as hazardous according to Regulation (EC) No 1272/2008 |
| **Pictogram(s)** | None |
| **Signal word** | None |
| **Hazard statement(s)** | None |
| **Precautionary statement(s)** | None |
| **Other hazards** | None known. |

| SECTION 3: Composition/information on ingredients | |
|---|---|
| **Component** | Tripotassium citrate |
| **CAS No.** | 6100-05-6 |
| **EC No.** | 212-755-5 |
| **Classification** | Not classified |
| **Concentration (%)** | ≤100 % |

| SECTION 4: First aid measures | |
|---|---|
| **If inhaled** | Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. |
| **In case of skin contact** | Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor if irritation occurs. |
| **In case of eye contact** | Rinse with pure water for at least 15 minutes. Consult a doctor if irritation persists. |
| **If swallowed** | Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center if feeling unwell. |
| **Most important symptoms and effects** | May cause mild irritation of eyes, skin and respiratory tract; large oral doses may cause gastrointestinal disturbance. |
| **Indication of any immediate medical attention** | Treat symptomatically. Show this safety data sheet to the doctor in attendance. |

| SECTION 5: Firefighting measures | |
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| **Suitable extinguishing media** | Water spray, dry chemical, carbon dioxide (CO2) or alcohol-resistant foam. |
| **Unsuitable extinguishing media** | None |
| **Special hazards arising from the chemical** | Not combustible. Carbon oxides and potassium oxides may be formed under fire conditions. |
| **Advice for firefighters** | Wear self-contained breathing apparatus for firefighting if necessary. |

| SECTION 6: Accidental release measures | |
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| **Personal precautions, protective equipment and emergency** | Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Ensure adequate |

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| **procedures** | ventilation. |
| **Environmental precautions** | Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. |
| **Methods and materials for containment and cleaning up** | Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. |

## SECTION 7: Handling and storage

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| **Precautions for safe handling** | Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. |
| **Conditions for safe storage, including any incompatibilities** | Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials. |

## SECTION 8: Exposure controls/personal protection

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| **Occupational exposure limit values** | None established (no occupational exposure limit values known) |
| **Biological limit values** | No biological exposure index (BEI) established. |
| **Appropriate engineering controls** | Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. |
| **Eye/face protection** | Wear tightly fitting safety goggles with side-shields conforming to EN 166 (EU) or NIOSH (US). |
| **Skin protection** | Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands after use. |
| **Body protection** | Wear appropriate protective clothing to prevent skin contact. |
| **Respiratory protection** | If the exposure limits are exceeded or irritation is experienced, use an approved respirator. |
| **Thermal hazards** | No specific thermal hazards under normal conditions of use. |

## SECTION 9: Physical and chemical properties

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| **Physical state** | Solid, crystalline |
| **Colour** | White |
| **Odour** | Odourless |
| **Melting point / freezing point** | ca. 230 °C (decomposes; loses crystal water above ca. 100 °C) |
| **Boiling point or initial boiling point and boiling range** | Not applicable (decomposes before boiling) |

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|---|---|
| **Flammability** | Not combustible |
| **Lower and upper explosion limit / flammability limit** | Not applicable (non-combustible) |
| **Flash point** | Not applicable |
| **Auto-ignition temperature** | Not applicable (non-combustible) |
| **Decomposition temperature** | > 230 °C |
| **pH** | 8.6 - 9.0 (1 % solution) |
| **Kinematic viscosity** | Not applicable (solid) |
| **Solubility** | Freely soluble in water; practically insoluble in ethanol |
| **Partition coefficient n-octanol/water** | log Pow: -1.72 (estimated for citric acid; not relevant for the salt) |
| **Vapour pressure** | Negligible (inorganic salt) |
| **Density and/or relative density** | 1.98 g/cm3 at 20 °C |
| **Relative vapour density** | Not applicable (solid) |
| **Particle characteristics** | White crystalline powder or granules |

## SECTION 10: Stability and reactivity

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| **Reactivity** | No dangerous reactions known under normal conditions of use. |
| **Chemical stability** | Stable under recommended storage conditions. |
| **Possibility of hazardous reactions** | No hazardous reactions known. |
| **Conditions to avoid** | Heat and moisture (hygroscopic). |
| **Incompatible materials** | Strong oxidizing agents. |
| **Hazardous decomposition products** | Carbon oxides, potassium oxides (under fire conditions). |

## SECTION 11: Toxicological information

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| **Acute toxicity - Oral / Inhalation / Dermal** | LD50 Oral - Mouse (male/female) - 5,400 mg/kg bw LD50 Dermal - Rat (male/female) - > 2,000 mg/kg bw |
| **Skin corrosion/irritation** | Skin - Rabbit - No skin irritation (OECD Test Guideline 404) |
| **Serious eye damage/irritation** | May cause mild, transient eye irritation; not classified |
| **Respiratory or skin sensitization** | Not a skin sensitizer; no sensitization effects known |
| **Germ cell mutagenicity** | Ames test negative; not mutagenic in available in vitro tests |

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| **Carcinogenicity** | No component of this product present at levels greater than or equal to 0.1 % is identified as a carcinogen by IARC, NTP or OSHA |
| **Reproductive toxicity** | Not classified based on available data |
| **STOT - single exposure** | Not classified |
| **STOT - repeated exposure** | Not classified |
| **Aspiration hazard** | Not applicable (solid) |

## SECTION 12: Ecological information

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| **Toxicity to fish / daphnia / algae** | Toxicity to fish: LC50 - Leuciscus idus melanotus - 440 mg/l - 48 h Toxicity to daphnia: LC50 - Daphnia magna - 1,535 mg/l - 24 h Toxicity to algae: Toxicity threshold - Scenedesmus quadricauda - 640 mg/l - 8 d |
| **Persistence and degradability** | Readily biodegradable (citrate is rapidly mineralized in the environment) |
| **Bioaccumulative potential** | Not expected to bioaccumulate (log Pow < 0) |
| **Mobility in soil** | Highly mobile in soil (very soluble in water) |
| **Other adverse effects** | None known |

## SECTION 13: Disposal considerations

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| **Product disposal methods** | The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. |
| **Contaminated packaging** | Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning, or disposed of in a sanitary landfill. |

## SECTION 14: Transport information

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| **UN Number (ADR/RID, IMDG, IATA)** | Not regulated as dangerous goods |
| **UN Proper Shipping Name** | Not regulated as dangerous goods |
| **Transport hazard class(es)** | Not regulated as dangerous goods |
| **Packing group** | Not regulated as dangerous goods |
| **Environmental hazards (Marine pollutant)** | No |
| **Special precautions for user** | No special precautions required during transport. |

## SECTION 15: Regulatory information

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| **Safety, health and environmental regulations specific for the product** | EINECS: Listed (212-755-5) / TSCA: Listed / IECSC: Listed |

## SECTION 16: Other information

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|---|---|
| **Full text of H-Statements** | None (not classified as hazardous) |
| **Revision date** | 2026-10-29 |
| **Version** | 1.0 |

**Abbreviations and acronyms:** CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

**References:** ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

**Disclaimer:** The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.