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**Material Safety Data Sheet**

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<b>Product Name</b>	<b>tri-Potassium citrate</b>
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**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identification:****Product Description:** tri-Potassium citrate**Synonyms:** Citric acid, tri-Potassium salt, Monohydrate**CAS-No:** 6100-05-6**EC-No.:** 212-755-5**Molecular Formula:**  $C_6H_5K_3O_7 \cdot H_2O$ 

**REACH Registration No:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

**1.2. Relevant identified uses of the substance or mixture and uses advised against:****Recommended Use:** Laboratory chemicals, Manufacturing of substances**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**  
184-186/P, Chacharwadi Vasna,  
Sarkhej-Bavla Highway,  
Ta.: Sanand, Dist.: Ahmedabad,  
Email: [info@finarchemicals.com](mailto:info@finarchemicals.com)  
Web: [www.finarchemicals.com](http://www.finarchemicals.com)
- **E-Mail Address** [safety@finarchemicals.com](mailto:safety@finarchemicals.com); [info@finarchemicals.com](mailto:info@finarchemicals.com)

**1.4. Emergency Telephone Number:**

- For Emergency contact on: +91 - 2717 - 616 717

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### SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2. Label Elements:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.3. Other Hazards:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances:** tri-Potassium citrate

**3.2. Mixtures:**

Component	CAS-No	EC-No.	Weight %
tri-Potassium citrate	6100-05-6	212-755-5	>98

### SECTION 4: FIRST AID MEASURES

**4.1. Description of first aid measures:**

- **If inhaled**

Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

- **If Contact with skin**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

- **In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.

- **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2. Most important symptoms and effects, both acute and delayed:**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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**4.3. Indication of any immediate medical attention and special treatment needed:**  
 No Data Available

**SECTION 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing media:**

**Suitable Extinguishing Media-**

Water, Foam, Carbon Dioxide (CO<sub>2</sub>), Dry Chemical Powder (DCP).

**Unsuitable Extinguishing Media-**

For this substance/mixture no limitations of extinguishing agents are given.

**5.2. Special hazards arising from the substance or mixture:**

Carbon oxides

Potassium oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

**5.3. Advice for firefighters:**

In the event of fire, wear self-contained breathing apparatus (SCBA).

**5.4 Further Information:**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures:**

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: For Personal Protection: - See Section 8.

**6.2. Environmental precautions:**

Do not let product enter drains.

**6.3. Methods and material for containment and cleaning up:**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4. Reference to other sections:**

For disposal see Sections 13.

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**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

**Advice on protection against fire and explosion**

Provide appropriate exhaust ventilation at places where dust is formed.

**Hygiene measures**

General industrial hygiene practice.

For precautions see section 2.2.

**7.2. Conditions for safe storage, including any incompatibilities:**

Keep containers tightly closed in a dry and well-ventilated place. Store in cool place.

**7.3. Specific end use(s):**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters:**

**Ingredients with workplace control parameters**

**8.2. Exposure Controls:**

**Appropriate Engineering Controls:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.

**Personal Protective Equipment:**

**Eye & Face Protection-**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety Glasses

**Hand Protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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**Full Contact:**

Glove Material:	Nitrile Rubber
Glove Thickness:	0.11 mm
Break Through Time:	480 min
Material tested:	KCL 741 Dermatril® L

**Splash Contact:**

Glove Material:	Nitrile Rubber
Glove Thickness:	0.11 mm
Break Through Time:	480 min
Material tested:	KCL 741 Dermatril® L

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be elected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental Exposure Controls**

Do not let product enter drains.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties:**

- **Appearance:** White
- **Physical State:** Solid
- **Odor:** No data available
- **Odor Threshold:** No data available
- **pH:** 8.0 – 9.5
- **Melting Point/Freezing Point:** 180°C (356°F)
- **Boiling Point/Range:** No data available
- **Flash Point:** No data available
- **Critical Temperature:** No data available

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- **Vapor Pressure:** No data available
- **Relative Density:** No data available
- **Density:** No data available
- **Auto-Ignition Temperature:** Not combustible
- **Decomposition Temperature:** No data available
- **Volatility:** No data available
- **Bulk Density:** ca.950 kg/m<sup>3</sup>
- **Specific Gravity:** 1.98 (Water)
- **Viscosity, Dynamic:** No data available
- **Viscosity, Kinematic:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Partition Co-efficient: n-octanol/Water:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Water Solubility:** Easily soluble in cold water

**9.2. Other information:**

**Molecular Formula:** C<sub>6</sub>H<sub>5</sub>K<sub>3</sub>O<sub>7</sub>·H<sub>2</sub>O

**Molecular Weight:** 324.41 g/mol

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity:**

The following applies in general to flammable organic substances and mixtures:

In correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

**10.2. Chemical stability:**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions:**

No data available

**10.4. Conditions to avoid:**

No data available

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**10.5. Incompatible materials:**

Strong oxidizing agents

**10.6. Hazardous decomposition products:**

In the event of fire: see section 5

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute Oral toxicity**

No data available

**Acute inhalation toxicity**

No data available

**Acute dermal toxicity**

No data available

**Skin irritation**

No data available

**Eye irritation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Further Information:**

No data available

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**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity:**

No data available

**12.2 Persistence and degradability:**

No data available

**12.3 Bioaccumulate potential:**

No data available

**12.4 Mobility in soil:**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects:**

No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.



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**SECTION 14: Transport information**

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
<b>14.1 UN number</b>	-		
<b>14.2 Proper shipping name</b>	Not dangerous goods		
<b>14.3 Class</b>	-		
<b>14.4 Packing group</b>	-		
<b>14.5 Environmentally hazardous</b>	-		
<b>14.6 Special precautions for user</b>	-		

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**National legislation**

Seveso III: Directive 2012/18/EU of the : Not applicable  
 European Parliament and of the Council on the  
 control of major-accident hazards involving  
 dangerous substances.

**15.2 Chemical safety assessment:**

For this product a chemical safety assessment was not carried out.

**SECTION 16: Other information**

**Training advice**

Provide adequate information, instruction and training for operators.

**References:** Not available

**Created:** 14/06/2021

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