

MATERIAL SAFETY DATA SHEET**Product Name:** Citric acid monohydrate**CAS No.:** 5949-29-1**Version:** 0**1. Identification**

Product Code : 90143,90753
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2. Hazards Identification**Hazard classification**

Eye irritation : Category 2

Label elements**Hazard symbol****Signal word** : Warning**Hazard statement** : Causes serious eye irritation.**Precautionary statement** : Wear eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.**Supplemental Hazard Statements** : None.**3. Composition/information on ingredients**

Ingredient	CAS No
Citic acid monohydrate	5949-29-1

4. First Aid Measures**Description of first aid measures****General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.

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- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact** : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
- Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed** : To the best of our knowledge, the chemical, physical, and toxicological properties have not been Thoroughly investigated.
- Indication of any immediate medical attention and special treatment needed Treatment** : No data available

5. Fire fighting measures**Extinguishing media**

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture** : No data available
- Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary
- Further information** : May intensify fire; oxidiser.

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
- Environmental precautions** : Do not let product enter drains.
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

MATERIAL SAFETY DATA SHEET**Product Name:** Citric acid monohydrate**CAS No.:** 5949-29-1**Version:** 0**7. Handling and Storage**

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Non Combustible Solids
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection 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.

Body Protection : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : Colourless crystals or white crystalline powder. Slightly efflorescent in warm dry air.
- Odor** : No data available
- pH** : 1.8 at ca.50 g/l at 25 °C
- Melting point/freezing point** : 153 - 159 °C
- Initial boiling point and boiling range** : No data available

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Flash Point	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: No data available
Solubility in water	: 383 g/l at 25 °C
Solubility (other)	: No data available
Formula	: C ₆ H ₈ O ₇ .H ₂ O
Molecular Weight	: 210.14 g/mol

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No data available
Conditions to avoid	: No data available
Incompatible materials	: Oxidizing agents, Bases, Reducing agents, Nitrates
Hazardous decomposition products	: Other decomposition products - No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	: LD50 Oral - Rat - 5.400 mg/kg (OECD Test Guideline 401) LD50 Dermal - Rat - > 2.000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation	: Skin - Rabbit Result: Mild skin irritation (OECD Test Guideline 404)
Serious eye damage/eye irritation	: Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405)
Respiratory or skin sensitization	: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Germ cell mutagenicity	: No data available
Carcinogenicity	: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	: No data available
Specific target organ toxicity - single exposure	: May cause respiratory irritation. May cause drowsiness or dizziness.

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Specific target organ toxicity - repeated exposure : No data available
Aspiration hazard : No data available

12. Ecological Information

Toxicity : Toxicity to fish mortality LC50 - Leuciscus idus melanotus - 440 mg/l - 48 h (OECD Test Guideline 203)
 Toxicity to daphnia and other aquatic invertebrates static test - Daphnia magna (Water flea) - 1.535 mg/l - 24 h
Persistence and degradability : No data available
Bioaccumulative potential : No data available
Mobility in soil : No data available
Other adverse effects : No data available

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT					Not dangerous goods
IMDG					Not dangerous goods
IATA					Not dangerous goods

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture
 No Data Available.

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