

SAFETY DATA SHEET

Citric acid solution

Version 1.0 Revision 0
Revision Date: 07/01/2025
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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product name : Citric acid solution 10% w/v
Trade name : Citric acid solution 10% w/v
Chemical name : Not applicable
Molar mass : Not applicable
Chemical family : Not applicable
Manufacturer's code : C-SA-B04-30xxx
Use : Laboratory chemicals, analytical reagents

1.2 Company Identification

Manufacturer's name : Centronics Sdn Bhd
Distributor's name & address : Centronics Sdn Bhd
 Centronics Systems & Services Sdn Bhd
 No. 23, Jln Sungai Jerluh 32/196
 Seksyen 32, Bukit Kemuning
 40460 Shah Alam, SEL
Emergency tel. no. : 603-5525 2568
Fax. no. : 603-5131 5668

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Eye irritation, Category 2, H319

For the full text of H-sentences mentioned in this Section, see Section 16

2.2 Label element



Signal word

Warning

2.3 Hazard statements

H319 Causes serious eye irritation.

2.4 Precautionary statements

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P234 - Keep only in original container

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SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%	Hazardous
77-92-9	Citric acid	10	Yes
7732-18-5	Water	90	No

SECTION 4: FIRST AID MEASURES

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 General information

Use proper personal protective equipment as indicated in Section 8.

6.2 Small spill and leak

Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.3 Large spill and leak

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

6.4 Reference to other sections

For disposal see Section 13

SECTION 7: HANDLING AND STORAGE

7.1 Handling

Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2 Storage

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limits

Chemicals Name	CAS No.	Standard	Reference
Water	7732-18-5	None listed	None listed
Citric acid	77-92-9	None listed	None listed

8.2 Personal Protections

Skin	Wear appropriate protective gloves (Nitrile) to prevent skin exposure.
Eyes	Wear chemical splash goggles.
Clothing	Wear appropriate protective clothing to prevent skin exposure.
Respirators	A suitable respiratory protection must be wear.

8.3 Ventillation

Well-ventillated

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form : Liquid Color : Colorless
Solubility	Soluble.
Odor	Practically odorless
pH	Not available
Freezing/Melting point	> 0°C
Boiling point	> 100°C
Vapor pressure	Not available.
Percentage volatiles	Not available
Evaporation rate	Not available
Vapour density	Not available
Specific gravity	1.04
Flash point	Not available
Autoignition temperature	Not available
Flammable limit (%)	Not available
Other properties if applicable	Not available

SECTION 10: STABILITY AND REACTIVITY

Stability	: Stable.
Conditions to avoid	: Extreme temperatures.
Incompatibility (Material to avoid):	: Strong oxidizing agents.
Hazardous decomposition or by-products	: No hazardous decomposition products are known.

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SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Acute oral toxicity	Quantitative data on the toxicity of this product are not available.
Acute dermal toxicity	No further relevant information available.
Sensitisation	No further relevant information available.
Germ cell mutagenicity	No further relevant information available.
Carcinogenicity	No further relevant information available.
Reproductive toxicity	No further relevant information available.
Aspiration hazard	No further relevant information available.

Specific target organ toxicity - single exposure

No further relevant information available.

Specific target organ toxicity - repeated exposure

No further relevant information available.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Further information

No further relevant information available.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	No information available
Persistence and degradability	Not available.
Bioaccumulative potential	No information available
Mobility in soil	No information available
Toxicity	No information available
Results of PBT and vPvB assessment	No information available
Other adverse effects	Do not allow to enter waters, waste water, or soil.

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SECTION 13: DISPOSAL CONSIDERATIONS

Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Disposal of waste to be in accordance with the Environmental Quality (Scheduled Wastes) Regulation 1989 and other guidelines issuance by DOE and/or local authorities.

RCRA HAZARD CLASS: Not Listed

Contaminated packaging

Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: REGULATORY INFORMATION

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

All national and local regulations, including Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013, if applicable to the use, should be observed.

15.2 Chemical safety assessment

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

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SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

Key literature references and sources for data

Suppliers safety data sheet,
Chemadvisor - LOLI,
Merck index,

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Revision of the SDS: Revision 0

Disclaimer:

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END OF SAFETY DATASHEET