



UNITECH SCIENTIFIC LLC

CITRIC ACID Reagent SDS CIT US

SAFETY DATA SHEET (HCS - 29 CFR 1910.1200(g))

1. CHEMICAL IDENTIFICATION and COMPANY CONTACT INFORMATION

Product trade name:	Citric Acid Reagent	Supplier:	Unitech Scientific LLC
Product No. :	CIT US		12026 Centralia Rd, Ste H
Recommended Use:	Food analysis		Hawaiian Gardens, CA 90716, USA
Restrictions on Use:	N/A		
Date of Issue:	2011-03-01	Information, Operations:	562 924-5150
Date of Revision:	01 Aug 2015	Information in case of Emergency:	562 924-5150

2. HAZARD IDENTIFICATION

Based on the concentrations in the composition it is not a hazardous product in terms of directive 99/45/EC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product described is a pure substance: no
Chemical Characterisation: see below
(Dangerous) Components: with the used amounts: none
Reagent 2- Designation: Zinc chloride Content [%]< 0.25 Kb 1: C Kb 3: not appl.
CAS-No.: 7646-85-7 Risk reg. comp.: 7/8-28-45-60-61 Kb 2: N
CL Contains no risk components

4. FIRST AID MEASURES

Symptoms:	No symptoms expected
If inhaled:	Remove to fresh air.
In case of skin contact:	Flush with copious amount of water.
In case of contact with eyes:	Flush with copious amount of water while separating the eyelids with fingers.
If irritations appear and persist	call a physician.
If swallowed:	Flush with copious amount of water. Call a physician.

5. FIRE FIGHTING

Extinguishing media: water, CO₂, foam, powder

6. SPILLAGE, ACCIDENTAL RELEASE

Personal precautions:	Avoid swallowing; do not store together with food.
Environment precautions:	Avoid release into sewerage.
Procedures for clean-up/absorption:	Sweep up with cellulose and hold for waste disposal.

7. HANDLING AND STORAGE

Handling:	No special requirements
Storage:	Dry. At +2°C to +10°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold value for maintenance of industrial health and safety standards:
Application of minimum protective standards is mandatory.
Personal protection: Protection wear according to national laboratory regulations are sufficient for personal safety (coat, safety goggles, shoes, disposable gloves (latex). Wash hands after finishing work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance - Reagent 2:	solid
CL- Reagent 2:	solid
Colour- Reagent 2:	white
CL- Reagent 2:	white
Odor- Reagent 2:	no data available
pH- Reagent 2:	7.8; CL: 7.0
Boiling point/-range:	not determined
Flammability:	not flammable
Explosive properties:	not explosive
Vapour pressure:	not determined
Relative density:	not determined
Solubility in water:	MDH/LDH/NADH-buffer and CL: water soluble

10. STABILITY AND REACTIVITY

Avoidable conditions: nothing known
Avoidable substances: nothing known
Dangerous decomposition products: nothing determined
Further declarations: none

11. TOXICOLOGICAL INFORMATION

Toxicity data:

Zinc chloride (toxicological determining component)

LD50 (oral, rat): 350 mg/kg

Further statements regarding the toxicological effects:

The components in the preparation are used in such low concentrations that with proper handling and use no toxicological effects are expected.

Further declarations: As for all chemicals, handle the product with care.

12. ECOLOGICAL INFORMATION

Ecotoxicological effects: Quantitative data of the ecological impact of this composition are not yet known.

Biological degradability: not known

Biological effects: Ecotoxicology: Zinc chloride

Fish: *Leuciscus idus* LC50: 21 mg/l

Daphnia magna: LC50: 12 mg/l

Referring to this data, the product should not get into environmental waters, sewage or soil. In case of accidental release flush or dilute with copious amounts of water.

13. DISPOSAL CONSIDERATIONS

Product: There are no uniform regulations for disposal of chemicals. Contact a licensed professional waste disposal service for disposal of this material. Observe all federal, state and local environmental regulations.

Packaging: Dispose according to the regulations of the public authorities. Contaminated packaging has to be treated like the composition. If not otherwise regulated by public authorities, non-contaminated packaging can be treated like household waste or brought to recycling procedures.

14. TRANSPORT INFORMATION

Land transport: GGVS, GGVE, ADR, RID
class, designation: ---

Inland ship transport: AND, ADNR
class: ---

Ocean shipping transport: IMDG, GGVSee
class, EmS, MFAG, designation: ---

Air transport: ICAO, IATA
class, designation: ---

This product is not subject to current regulations for transportation of hazardous goods (GGVS/ADR, GGVE/RID, IMDG, IATA/ICAO).

15. REGULATORY INFORMATION

Indication following the HCS directives:

Symbols: ---

Risk regulations: ---

Safety Regulations: ---

Note: This product must be labeled in accordance with HCS - 29 CFR 1910.1200(g).

16. OTHER INFORMATION

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