

Revision Date 18.02.2013

Revision 03



SAFETY DATA SHEET

CITRIC ACID

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	CITRIC ACID
Product No.	100802, 100776, 100974, 101601, 101614, 101869, 101870, 103842, 103942, 10476 106027, 106028, 106140, 106420, 106422, 300264, 108131, 108132, 108134, 10813 108136, 108133, 108138, 301289
Synonyms, Trade Names	CITRIC ACID MONOHYDRATE, 2, HYDROXY-1, 2, 3 PROPANE TRICARBOXYLIC ACID, Citric acid 1-hydrate E330
REACH Registration number	01-2119457026-42
CAS-No.	5949-29-1
EC No.	201-069-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Food industry Cosmetics Industrial application Detergent. Pharmaceuticals
------------------------	---

1.3. Details of the supplier of the safety data sheet

Supplier	Univar Aquarius House 6 Midpoint Business Park Thornbury Bradford BD3 7AY +44 1274 267300 +44 1274 267306 sds@univareurope.com
-----------------	--

1.4. Emergency telephone number

Emergency Contact Number (Office Hours)	+44 1274 267346
Emergency Contact Number (Outside Office Hours)	+441865 407333
Finnish only	
TOL1: C10, KT1: 26	
Sds No.	20376

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CITRIC ACID

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Eye Irrit. 2 - H319
Environment	Not classified.

Classification (67/548/EEC)

Xi;R36.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

EC No. 201-069-1
 Label In Accordance With (EC) No. 1272/2008



Signal Word

Warning

Hazard Statements

H319 Causes serious eye irritation.

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash skin thoroughly after handling.
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name CITRIC ACID
 REACH Registration number 01-2119457026-42
 CAS-No. 5949-29-1
 EC No. 201-069-1

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.

CITRIC ACID

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

Eye contact

May cause severe irritation to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Oxides of: Carbon.

5.3. Advice for firefighters

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Avoid inhalation of dust. Provide adequate ventilation.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Avoid inhalation of high concentrations of dust. Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities

CITRIC ACID

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Store in closed original container at temperatures between 5°C and 30°C.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

PNEC

Freshwater	0.44	mg/l
Marinewater	0.044	mg/l
STP	>1000	mg/l

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Respiratory equipment

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m³.

Hand protection

Use suitable protective gloves if risk of skin contact.

Eye protection

Wear dust resistant safety goggles where there is danger of eye contact.

Other Protection

Wear rubber apron. Wear rubber footwear.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder, dust Crystals or crystalline
Colour	Colourless. or White.
Odour	Odourless.
Solubility	Soluble in water. Soluble in: Alcohol
Melting point (°C)	135 - 152
Relative density	1.542 - 1.665 @ 20C
pH-Value, Diluted Solution	1.85 @ 5%
Solubility Value (G/100G H ₂ O@20°C)	67.6
Auto Ignition Temperature (°C)	345°C

CITRIC ACID

Partition Coefficient (-0.2)- (-1.8)
(N-Octanol/Water)

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid dust formation.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong alkalis.

10.6. Hazardous decomposition products

Fire creates: Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50

11700 mg/kg (oral rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

Inhalation

Dust in high concentrations may irritate the respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin contact

Powder may irritate skin.

Eye contact

Irritating to eyes.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

CITRIC ACID

Acute Fish Toxicity

Not considered toxic to fish.

LC 50, 96 Hrs, Fish mg/l 440 - 706

12.2. Persistence and degradability

Degradability

The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Partition coefficient (-0.2) - (-1.8)

12.4. Mobility in soil

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not determined.

Cod 665 mgO₂/g

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

No information required.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

No information required.

CITRIC ACID

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. According to Regulation (EU) No 453/2010

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	18.02.2013
Revision	03
SDS No.	20376
Safety Data Sheet Status	Approved.
Date	10.08.2010
Signature	Jitendra Panchal

Risk Phrases In Full

R36 Irritating to eyes.

Hazard Statements In Full

H319 Causes serious eye irritation.