

SAFETY DATA SHEET

ACIDE CITRIQUE

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Product name: Acide citrique

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

Industry, wine and food

1.3. Details of the supplier of the safety data sheet

Company details: Institut Œnologique de Champagne
Z.I. de Mardeuil – Allée de Cumières – BP 25
51201 EPERNAY Cedex
FRANCE
Tel: + 33 (0) 3.26.51.96.00.
Fax: + 33 (0) 3.26.51.02.20.
fds@ioc.eu.com

1.4. Emergency telephone number

112

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Hazard classes and Hazard statement Code(s) Serious eye damage/eye irritation Eye Irrit. 2
H319: Causes serious eye irritation.

Hazard Class and Category Code(s)
Eye Irrit. 2

2.2. Label elements

Pictograms:



WARNING

Hazard statement:
H319: Causes serious eye irritation.

Precautionary statements:

P264: Wash eyes thoroughly after handling.

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

P280: wear protective gloves/eye protection/face protection. (see MSDS).

P337+P313: If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Synonymes: 2-hydroxy-1,2,3-propanetricarboxylic acid monohydrate

Molecular formula: C₆-H₁₀-O₈

Dangerous components: Acide citrique monohydraté

N°CAS : 5949-29-1

N°CE : 201-069-1

Classification: Xi ; R36

Classification SGH: Eye Irrit. 2 ; H319

Concentration [%]: ≥ 99,8

3.2. Mixtures

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice: get away from the danger zone. Show this safety data sheet to the attending physician.

Inhalation: Move to fresh air in case of accidental inhalation of dust or fumes from overheating. If disorders persist, consult a doctor.

Skin contact: Remove contaminated clothing and shoes immediately. Wash with soap and plenty of water.

Eye contact: Immediately flush eyes (eyes) with plenty of water. Remove contact lenses. Protect the intact eye. Keep your eye open while flushing. If eye irritation persists, seek medical attention.

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Ingestion: Rinse mouth with water and drink plenty of water. Do not drink milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Call a doctor.

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

No data available

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

No data available

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Appropriate fire-fighting equipment: Foam, water.

5.2. Special hazards arising from the substance or mixture

Collect the contaminated extinguishing water separately, do not discharge it into the pipes. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations. Beware of the risk of dust explosion.

5.3. Advice for firefighters

In case of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use individual protective gear. Avoid dust formation. Avoid inhalation of dust. Ensure adequate ventilation.

6.2. Environmental precautions

Try to prevent the penetration of equipment into sewers or waterways. No special precautions for the environment required.

6.3. Methods and material for containment and cleaning up

Neutralize with alkaline solutions, lime or ammonia. Pick up and evacuate without creating dust. Sweep and shovel.

6.4. Reference to other sections

No data available

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Personal protective equipment, see section 8. Do not eat, smoke or drink in the work area.

Advice on protection against fire and explosion: Avoid dust formation. Provide adequate ventilation where dust forms. Avoid the accumulation of electrostatic charges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed and away from moisture.

Other data: no decomposition if product is stored and used as prescribed.

Storage temperature: 10 - 30 ° C.

7.3. Specific end use(s)

No data available

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters

No data available

8.2. Exposure controls

Respiratory protection: In case of dust or aerosol formation, use a respirator with an approved filter.

Hand protection: glove material: eg nitrile rubber.

Eye protection: safety glasses with side shields.

Skin and body protection: Choose personal protection according to the amount and concentration of the dangerous substance at the workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Crystallized

Odor: Odorless.

Odor threshold: No data available.

pH: 2.2

Melting point / freezing point: approx. 100 ° C.

Initial boiling point and boiling range: No data available.

Flash point: No data available

Evaporation rate: No data available.

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Flammability: No data available.

Upper / lower flammability or explosive limits: No data available.

Vapor pressure: No data available.

Vapor density: 1.542 g / cm³ (at 18 ° C).

Solubilities:

Methanol: 1970 g / kg (19 ° C)

Ether: 21.7 g / kg

Chloroform: 0.07 g / kg

Partition coefficient: No data available.

Autoignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available

Explosive Properties: No data available

Oxidising properties: No data available

9.2. Other information

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Dust can form an explosive mixture with air. No decomposition in accordance with the intended use.

10.4. Conditions to avoid

Temperature > 35°C.

10.5. Incompatible materials

Strong acids and strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity:

LD50 (mouse): 5400 mg / kg

LD50 (rat): 3000 mg / kg

Skin irritation: slight irritation of the skin (rabbit, OECD guideline 404, 72h, anhydrous substance).

Eye irritation: severe eye irritation (rabbit, OECD Test Guideline 405, 72h, anhydrous substance).

Repeated dose toxicity: NOAEL (oral, rat): 1200 mg / kg / day. Chronic toxicity study (2 years).

Carcinogenicity: Animal tests showed no carcinogenic effects (rat, oral, anhydrous substance).

Genotoxicity in vitro: non-mutagenic (Ames test, anhydrous substance).

Genotoxicity in vivo: non-genotoxic (rat, anhydrous substance).

Reproductive Toxicity: No indication of adverse effects on known fertility.

Teratogenicity: non-teratogenic, non-embryotoxic (several species).

Other information: May irritate the respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicological effects:

Toxicity to fish: *Leuciscus idus* (Ide). LC50 (96h) > 440 - 760 mg / L.

Toxicity to daphnia and other aquatic invertebrates: *Daphnia magna*. EC50 (72h) approx. 120 mg / L.

Toxicity to algae: *Scenedesmus quadricauda* (green algae). EC0 (7 days) 640 mg / L.

Toxicity to bacteria: *Pseudomonas putida*. EC50 > 10000 mg / L.

12.2. Persistence and degradability

Ecotoxicological effects:

Toxicity to fish: *Leuciscus idus* (Ide). LC50 (96h) > 440 - 760 mg / L.

Toxicity to daphnia and other aquatic invertebrates: *Daphnia magna*. EC50 (72h) approx. 120 mg / L.

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Test type: ready biodegradability, activated sludge (adaptation not specified)

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recycle if possible, or send to an authorized incinerator. Follow the instructions in sections 6 and 7 when handling waste spillages, taking the steps indicated in the same sections. We recommend recycling containers instead of disposal. Observe the local and national legislation in force.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

Not regulated.

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class(es)

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Not regulated

14.6. Special precautions for user

Not regulated

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

Not regulated

SECTION 15. REGULATORY INFORMATION

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

European Regulation 1907/2006/EC (Reach);

European Regulation 1272/2008/EC (CLP);

European Regulation 453/2010/EU;

DIRECTIVE 24/1998/EC;

DIRECTIVE 37/2004/EC;

DIRECTIVE 92/1999/EC;

DIRECTIVE 18/2012/EU;

15.2. Chemical safety assessment

No.

SECTION 16. OTHER INFORMATION

Complete review of compliance with Regulation (EU) No 453/2010 of 20 May 2010

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