



EUROFORNITURE SRL

Revision no. 1
Revision date 20/06/2024

New issue

7782 - ANHYDROUS CITRIC ACID

Printed on 20/06/2024
Page no. 1/13

Safety Data Sheet

Compliant with Annex II of REACH - Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: 7782
Name: ANHYDROUS CITRIC ACID
Chemical name and synonyms: ANHYDROUS CITRIC ACID
INDEX number: 607-750-00-3
EC number: 201-069-1
CAS number: 77-92-9

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

Description/Use: Acidifier and preservative in foods, descaler, rinse aid, laundry additive, detergency adjuvant

1.3. Details of the supplier of the safety data sheet

Company name: EUROFORNITURE SRL
Address: Piazza M. Buonarroti 3/a
Place and country: 50018 SCANDICCI (FI) ITALY
tel. 0557301222
fax 0557301771

e-mail address of the competent person responsible for the Safety Data Sheet Supplier: info@eurofornitureonline.it
EUROFORNITURE SRL

1.4. Emergency telephone number

For urgent inquiries refer to: NHS Direct (UK): +44 0845 46 47

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

**EUROFORNITURE SRL**

Revision no. 1

Revision date 20/06/2024

New issue

Printed on 20/06/2024

Page no. 2/13

7782 - ANHYDROUS CITRIC ACID**Safety Data Sheet** Compliant with Annex II of REACH - Regulation (EU) 2020/878

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of Regulation (EU) 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and indication of danger:

Eye irritation, category 2
Specific target organ toxicity - exposure
single exposure, category 3

H319
H335

Causes serious eye irritation.
May cause respiratory irritation.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation.**H335** May cause respiratory irritation.

Precautionary statements:

P501 Dispose of contents / container in accordance with current regulations.**P102** Keep out of reach of children.**P101** If medical advice is needed, have product container or label at hand.**P261** Avoid breathing dust/fume/gas/mist/vapours/spray.**P262** Do not get in eyes, on skin, or on clothing.**Contains:** CITRIC ACID

INDEX 607-750-00-3

2.3. Other hazards

The substance does not have persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative (vPvB).

The substance does not have endocrine disrupting properties.

**7782 - ANHYDROUS CITRIC ACID****Safety Data Sheet** Compliant with Annex II of REACH - Regulation (EU) 2020/878**SECTION 3. Composition/information on ingredients****3.1. Substances**

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
CITRIC ACID		
INDEX 607-750-00-3	99 ≤ x < 100	Eye Irrit. 2 H319, STOT SE 3 H335
CE 201-069-1		
CAS 77-92-9		

Substance classified in a harmonised way (contained in Annex VI CLP 1272/2008)

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures**4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If the problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If the irritation persists, seek medical assistance. Wash contaminated clothing before using it again.

INHALATION: Move the involved person to open air. If breathing is difficult, immediately call a doctor.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting unless explicitly authorised by a doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Information not available

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

Information not available

SECTION 5. Firefighting measures**5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment consist of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

**7782 - ANHYDROUS CITRIC ACID****Safety Data Sheet** Compliant with Annex II of REACH - Regulation (EU) 2020/878**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Standard firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1 for non-emergency personnel**

Avoid contact with skin, eyes and clothing. Do not breathe dust.

6.1.2 for emergency responders

Avoid dust formation by spraying the product with water if there are no contraindications.

Wear suitable protective equipment as indicated in section 8 of the safety data sheet to prevent contamination of skin, eyes and personal clothing.

These indications apply for both processing staff and those involved in emergency procedures.

HANDS: protective gloves for chemicals according to EN 374 standards - Material type: Butyl rubber

For the final choice of glove material, consider the usage conditions of the product and the formation of hazardous compounds.

Please remember that latex gloves may give rise to sensitisation phenomena.

SKIN: long-sleeved work clothes and safety footwear for professional use category I (standard EN ISO 20344).

EYES: airtight protective goggles compliant with EN 166.

RESPIRATORY PROTECTION:

The use of a type P filtering face mask is recommended, whose class (1, 2 or 3) must be defined based on the outcome of the chemical risk assessment (ref. standard EN 149).

6.2. Environmental precautions

Prevent the product from entering drains, surface and ground water.

6.3. Methods and materials for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. Remove the residue using jets of water if there are no contraindications.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used with the product, checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Handle the product after having consulted all the other sections of this safety data sheet. Avoid dispersal of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.



EUROFORNITURE SRL

Revision no. 1

Revision date 20/06/2024

New issue

Printed on 20/06/2024

Page no. 5/13

7782 - ANHYDROUS CITRIC ACID

Safety Data Sheet Compliant with Annex II of REACH - Regulation (EU) 2020/878

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep the containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure management/personal protection

8.1. Control parameters

Information not available

8.2. Exposure management

Avoid dust formation by spraying the product with water if there are no contraindications.

Wear suitable protective equipment as indicated in section 8 of the safety data sheet to prevent contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

protective gloves for chemicals according to EN 374 standards - Material type: Butyl rubber

For the final choice of glove material, consider the usage conditions of the product and the formation of hazardous compounds.

Please remember that latex gloves may give rise to sensitisation phenomena.

SKIN PROTECTION

long-sleeved overalls and safety footwear for professional use category I (standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

airtight protective goggles compliant with EN 166 standard.

RESPIRATORY PROTECTION

The use of a type P filtering face mask is recommended, whose class (1, 2 or 3) must be defined based on the outcome of the chemical risk assessment (ref. standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties

Value

Information

**7782 - ANHYDROUS CITRIC ACID****Safety Data Sheet** Compliant with Annex II of REACH - Regulation (EU) 2020/878

Physical state	solid	
Colour	white	
Odour	odourless	
Melting point / freezing point	153 °C	Concentration: 100 % Substance: CITRIC ACID
Initial boiling point	Data not available in the technical and scientific literature	
Flammability	Data not available in the technical and scientific literature	
Lower explosive limit	Data not available in the technical and scientific literature	
Upper explosive limit	Data not available in the technical and scientific literature	
Flash point	345 °C	
Auto-ignition temperature	Data not available in the technical and scientific literature	
Decomposition temperature	Data not available in the technical and scientific literature	
pH	2,3	Note: +/-0.1 Concentration: 1 % Temperature: 20 °C
Kinematic viscosity	Data not available in the technical and scientific literature	
Solubility	very soluble	
Partition coefficient: n-octanol/water:	Data not available in the technical and scientific literature	
Vapour pressure	Data not available in the technical and scientific literature	Concentration: 100 % Temperature: 20 °C
Density and/or relative density	1,665	Temperature: 20 °C
Relative vapour density	Data not available in the technical and scientific literature	
Particle characteristics	Data not available in the technical and scientific literature	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Molecular weight g/mol 192.120

**7782 - ANHYDROUS CITRIC ACID****Safety Data Sheet** Compliant with Annex II of REACH - Regulation (EU) 2020/878**SECTION 10. Stability and reactivity****10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Potential hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However, the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

Information not available

**7782 - ANHYDROUS CITRIC ACID****Safety Data Sheet** Compliant with Annex II of REACH - Regulation (EU) 2020/878Interactive effects

Information not available

ACUTE TOXICITY

CITRIC ACID

LD50 (Oral): 3000 mg/kg Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

MUTAGENIC EFFECTS

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

**7782 - ANHYDROUS CITRIC ACID****Safety Data Sheet** Compliant with Annex II of REACH - Regulation (EU) 2020/878STOT - SINGLE EXPOSURE

May cause respiratory irritation.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the substance is not included in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information**12.1. Toxicity**

Information not available

12.2. Persistence and degradability

CITRIC ACID

Solubility in water > 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

CITRIC ACID

BCF 3,2

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment



EUROFORNITURE SRL

Revision no. 1

Revision date 20/06/2024

New issue

Printed on 20/06/2024

Page no. 10/13

7782 - ANHYDROUS CITRIC ACID

Safety Data Sheet Compliant with Annex II of REACH - Regulation (EU) 2020/878

The substance does not have persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative (vPvB).

12.6. Endocrine disrupting properties

Based on the available data, the substance is not included in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable



EUROFORNITURE SRL

Revision no. 1

Revision date 20/06/2024

New issue

Printed on 20/06/2024

Page no. 11/13

7782 - ANHYDROUS CITRIC ACID

Safety Data Sheet Compliant with Annex II of REACH - Regulation (EU) 2020/878

14.5. Environmental hazards

not applicable

14.6. Special precautions for users

not applicable

14.7. Transport in bulk according to IMO instruments

Not applicable information

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: nan

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substances

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

nan

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

**7782 - ANHYDROUS CITRIC ACID****Safety Data Sheet** Compliant with Annex II of REACH - Regulation (EU) 2020/878

nan

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this hazardous chemical agent must undergo health checkups carried out in accordance with the provisions of Article 41 of Legislative Decree 81 of April 9, 2008, unless the risk to the safety and health of the workers has been assessed as irrelevant, as provided for in Article 224, paragraph 2.

15.2. Chemical safety assessment

No chemical safety assessment has been processed / is not yet available for the substance.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS: Chemical Abstract Service Number
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration that gives effect to 50% of the population subject to tests
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labelling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilisation concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental concentration
- PEL: Predicted Exposure Level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- STA: Acute toxicity estimate
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic compounds
- vPvB: Very persistent and very bioaccumulative as for REACH Regulation



EUROFORNITURE SRL

Revision no. 1

Revision date 20/06/2024

New issue

Printed on 20/06/2024

Page no. 13/13

7782 - ANHYDROUS CITRIC ACID

Safety Data Sheet Compliant with Annex II of REACH - Regulation (EU) 2020/878

- WGK: Water hazard classes (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA Agency website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless stated otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless stated otherwise in Section 12.