

Product: **ANHYDROUS GRANULAR CITRIC ACID (EUR. PH.)**

Product code: 0053

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Emission date: 23/07/2026

Version: 0053_MSDS_ENG_0126

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Product name: **ANHYDROUS GRANULAR CITRIC ACID (EUR. PH.)**
Product code: 0053
Nº CAS: 77-92-9
Nº EC: 201-069-1

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

Relevant identified uses: Pharmaceutical excipient and for industrial applications

1.3. Details of the supplier of the safety data sheet

Company: **METAPHARMACEUTICAL INDUSTRIAL SLU**
JOSEP PLA 163 2º 5ª
08020 BARCELONA
SPAIN
Phone number: (0034) 933 089 976
Contact e-mail: info@metaph.es
Web page: www.metaph.com

1.4. Emergency telephone number

National Institute of Toxicology of Madrid: (0034) 915 620 420

2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP).

Eye Irrit. 2, H319

STOT SE 3, H335

2.2. Label Elements

Signal word (CLP): WARNING

Hazard statements:

H315: Causes skin irritation
H339: May cause respiratory irritation

Precautionary statements:

P264: Wash ... thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313: If eye irritation persists: Get medical advice/attention

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**2.3. Other hazards**

No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

Product name:	ANHYDROUS GRANULAR CITRIC ACID
Synonyms:	ÁCIDO CÍTRICO ANHIDRO, ANHYDROUS CITRIC ACID
IUPAC name:	2-hydroxypropane-1,2,3-tricarboxylic acid
Nº CAS:	77-92-9
Nº EC:	201-069-1
Molecular formula:	C ₆ H ₈ O ₇

3.2. Mixtures

Not applicable.

4. FIRST AID MEASURES**4.1. Description of first aid measures**

General advises:	Consult a doctor. Show the safety data sheet to the doctor on duty.
Inhalation:	Take outdoors. If breathing is irregular, call a doctor immediately. Only apply artificial respiration if breathing stops or under medical supervision.
Skin contact:	Wash immediately with plenty of soap and water for at least 15 minutes. Take off all contaminated clothing immediately. Get medical attention if irritation develops and persists.
Eye contact:	Remove contact lenses and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	If conscious, give victim plenty of water to drink. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

The most important known symptoms and effects are described on the label (see Section 2.2) and/or in Section 11.

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

In case of doubt, or if symptoms of discomfort persist, seek medical attention. Never give anything by mouth to an unconscious person.

5. FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing methods:	Foam, dry chemical powder, carbon dioxide, sand, water spray/mist
Unsuitable extinguishing methods:	Direct water jet.
Neighboring fires (containers exposed to fire):	Water spray or water mist.

5.2. Special hazards arising from the substance or mixture

Avoid breathing combustion products. The product is combustible and, when dust is dispersed in the air at sufficient concentrations and in the presence of an ignition source, it may form explosive mixtures with air. Fire may develop or be sustained by the solid, potentially dripping from the container when exposed to high temperatures or upon contact with ignition sources.

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**5.3. Advice for firefighters**

General information: Cool containers with water to prevent product decomposition and development of potential health hazards. Always use full fire protection. Collect the water that should not enter the sewer. Eliminate the contaminated water used to extinguish and the remains of the second current regulations.

Equipment: Helmet with visor, flame retardant clothing (jacket and trousers with braces around the arms, legs and waist, EN 469), gloves (fire and dielectric proof, EN 659), a mask with a full-face mask. operator's face or car (protective car) in the case of large amounts of smoke, a self-contained breathing apparatus (EN 137).

6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

For exposure controls and personal protection measures, see Section 8.

Provide cleanup personnel with appropriate protective equipment. Ventilate the area. Evacuate unnecessary personnel.

6.2. Environmental precautions

Prevent release into the environment. Avoid entry into sewers and waterways. If the product reaches drains or public watercourses, notify the relevant authorities.

6.3. Methods and material for containment and cleaning up

Mechanically collect the spilled product and place it in suitable containers for recovery or disposal. Remove any residues with water spray, provided there are no contraindications. Ensure adequate ventilation of the area affected by the spill. Check Section 7 for any incompatibilities with the material. Disposal of contaminated material must be carried out in accordance with the provisions of Section 13.

6.4. Reference to other sections

For exposure controls and personal protective measures, see Section 8.

For disposal recommendations, see Section 13.

7. HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid releasing the product into the environment. Smoking, eating, and drinking must be prohibited in the application area. Comply with applicable occupational health and safety regulations. Keep the product only in containers made of the same material as the original packaging.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Keep containers tightly closed in a well-ventilated area, away from direct sunlight. Keep containers away from incompatible materials. Refer to Section 10 for information on incompatible materials.

7.3. Specific end use(s)

No additional information available beyond that provided in Section 1.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Exposure controls/personal protection**

No data available.

8.2. Exposure controls

Since the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation in the workplace by means of effective local suction. When choosing personal protective equipment, ask your chemical suppliers if necessary. Personal protective equipment must bear the CE marking that certifies compliance with the applicable regulations. Arrange an emergency shower with a visco-elastic tray.



Eye and face protection:	Protection masks and safety glasses according to EN 165, EN 166, EN 167, EN 168.
Hands protection:	Handle with gloves. The selected protective gloves must comply with the specifications of the EU Directive 89/686/EEC and the standards EN 374-1, EN 374-2, EN 374-3, EN 420 derived from it.
Respiratory protection:	Where risk assessment shows that air purifying respirators are appropriate, use type N95 (USA) or type P1 (EN 149) dust mask. Use respirators and components tested and approved under the appropriate government standards such as NIOSH (USA) or CEN (EU).
Skin protection:	Choose body protection based on the amount and concentration of the dangerous substance in the workplace.
Hygiene measures:	Handle with adequate industrial hygiene precautions, and respect safety practices. Wash your hands before breaks and after finishing the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Aspect:	Crystalline powder
Color:	White
Odor:	Odorless
Molecular weight:	192.12 g/mol
pH (25 °C, 5%):	1.8
Melting point (°C):	153
Auto-ignition temperature (°C):	345
Density (25 °C):	0.868 g/mL
Water solubility (20 °C):	67.6 %

9.2. Other information

Dry residue:	100.00 %
VOC (Directive 2010/75/EU):	0
VOC (volatile carbon):	0

10. STABILITY AND REACTIVITY

10.1. Reactivity

No special reactivity hazards are known. Stable under the recommended handling and storage conditions (see Section 7).

10.2. Chemical stability

Stable under the recommended handling and storage conditions (see Section 7).

10.3. Possibility of hazardous reactions

No data available.

**10.4. Conditions to avoid**

Avoid improper handling, including exposure to high pressures and/or temperatures, direct sunlight, and/or contact with air.

10.5. Incompatible materials

Bases and strong oxidizing agents.

10.6. Hazardous decomposition products

In the event of fire or exposure to high temperatures, hazardous toxic fumes may be generated.

11. TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (LD50, rat):	725 mg/Kg
Skin corrosion/irritation:	No additional information available (Lack of data)
Serious eye damage/eye irritation:	No additional information available (Lack of data)
Skin or respiratory sensitization:	No additional information available (Lack of data)
Germ cell mutagenicity:	No additional information available (Lack of data)
Carcinogenicity:	No additional information available (Lack of data)
Reproductive toxicity:	The product is classified as toxic for reproduction.
STOT – single exposure:	No additional information available (Lack of data)
STOT – repeated exposure:	No additional information available (Lack of data)
Aspiration Hazard:	No additional information available (Lack of data)

Potential Health Effects

Inhalation:	May cause moderate irritation of the upper respiratory tract
Ingestion:	May cause adverse health effects, including burning abdominal pain, nausea, and vomiting
Skin:	May cause moderate skin irritation
Eyes:	May cause eye redness, swelling, pain, and tearing
Signs and Symptoms of Exposure:	No additional information available (Lack of data)

11.2. Information on other hazards

No additional information available.

12. ECOLOGICAL INFORMATION

Use in accordance with good work practices, avoiding dispersing the product in the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

12.1. Toxicity

LC50 (Daphnia magna):	1,535 mg/L/24 h
LC50 (Leuciscus idus):	440 mg/L/48 h

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

This product is soluble in water and readily biodegradable in water and soil. Bioaccumulation is not expected.

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**12.4. Results of PBT and vPvB assessment**

No data available

12.5. Endocrine disrupting properties

No data available.

12.6. Other adverse effects

May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Product: Consider all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14. INFORMACIÓN RELATIVA AL TRANSPORTE

The product should not be considered hazardous according to the applicable regulations for the transport of dangerous goods by road (ADR), rail (RID), sea (IMDG Code), and air (IATA).

14.1. UN Number

Not classified as dangerous for transport.

14.2. UN proper shipping name

Not classified as dangerous for transport.

14.3. Transport hazard class(es)

Not classified as dangerous for transport.

14.4. Packing group

Not classified as dangerous for transport.

14.5. Environmental hazards

Not classified as dangerous for transport

14.6. Special precautions for user

Not classified as dangerous for transport.

14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous for transport.

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

The Safety Data Sheet complies with the requirements of Regulation (EU) 2020/878 of the Commission of June 18, 2020, by which Annex II of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council is modified, relating to the registration, evaluation, authorization and restriction of chemical substances and mixtures (REACH).

15.2. Chemical safety assessment

No additional information available.

**16. OTHER INFORMATION****Abbreviations and acronyms:**

PBT: Persistent, bioaccumulative and toxic

mPmB: Very persistent and very bioaccumulative

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals

Data sources used:

Regulation (CE) No. 1272/2008 of the European Parliament and of the Council, of December 16, 2008, on the classification, labeling and packaging of substances and mixtures, and by which Directives 67/548/CEE and 1999 are modified and repealed /45/CE and modifies Regulation (CE) No. 1907/2006.

Regulation (EU) 2020/878 of the Commission of June 18, 2020, by which Annex II of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, regarding registration, evaluation, authorization and the restriction of chemical substances and mixtures (REACH)

Safety Data Sheet according to Annex II of REACH Regulation (EU) 2020/878**Department issuing the Safety Data Sheet:**

Technical Department

The information in this Product Safety Data Sheet is based on current knowledge and current EC and national laws, as far as the working conditions of users are beyond our knowledge and control. The product must not be used for purposes other than those specified, without first having a written instruction on its handling. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established in the legislation.