

Regulation (EC) n° 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) – Annex II: Requirements for the compilation of safety data sheets

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identification

NAME OF THE PRODUCT: **CITRIC ACID ANHYDROUS**

CAS N°: 77-92-9

EC N°: 201-069-1

REACH REGISTRATION N°: 01-2119457026-42-XXXX

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

Product use: Various applications as cleaner in installations.

Uses advised against: Not known.

### 1.3. Details of the supplier of the safety data sheet

Company's name: Nortem Chem S.L.

Address: C/ Alexander Humboldt N°12. El Puerto de Santa María, 11500, Cádiz (Spain).

Number phone: 0034 856 925 095

E-mail: elpuerto@nortemchem.com

### 1.4. Emergency telephone number

Emergency telephone number: +34 915 620 420 (Instituto Nacional Toxicología, Madrid).

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Hazard type: Lesion or serious eye irritation.

Hazard category: Category 2

Hazard statements: H319 Causes serious eye irritation

\* Classification according to the Regulation (EC) n° 1272/2008 and registered dossiers in European Chemicals Agency: <http://echa.europa.eu>

\* Check the full text of the classification, including the precautionary statements in SECTION 16.

**2.2. Label elements**

Labeling in accordance with Regulation (EC) No. 1272/2008 [CLP].

HAZARD PICTOGRAM:



SIGNAL WORD: Warning

HAZARD STATEMENTS: H319 Causes serious eye irritation

PRECAUTIONARY STATEMENTS:

Prevention:

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear eye protection.

Response:

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.

**2.3. Other hazards**

PBT: this substance is not PBT / vPvB

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1. Substances**

| Substance  | CAS nº  | EC nº         | Concentration (%) | Hazard classification   |
|--|---------|---------------|-------------------|---|
| Citric acid<br>REACH registration No.:<br>01-2119457026-42 -<br>XXXX | 77-92-9 | 201-069-<br>1 | 100%              | Severe eye damage or<br>irritation.<br>Category 2<br>H319 Causes serious eye<br>irritation. |

**3.2. Mixture**

Not applicable

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid**

General advice: Show safety data sheet to the doctor in attendance. Immediate medical attention is not required.

IN CASE OF CONTACT WITH EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Drink plenty of water. Do not induce vomiting. Consult a doctor if it is necessary.

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

If in eyes: May cause irritation and pain may occur.

\* Delayed effects: No further relevant information available.

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

Immediate / special treatment: Rinse eyes with plenty of water. No special equipment is required.

Medical tracing of delayed effects: Not required.

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

Suitable extinguishing media: water, water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used: None.

**5.2. Special hazards arising from the substance or mixture**

Specific hazards: During combustion in the fire there are no toxic vapors derived from the substance.

Specific hazards during fire fighting: There are no specific hazards arising from the substance. Do not use a water jet as it can dispense and spread the fire.

**5.3. Advice for firefighters**

Protection of first-aider: Use personal protective equipment.

Specific methods: Standard procedure for chemical fires. Use extinction measures that are appropriate to the circumstances of the premises and its surroundings.

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

Personal precautions: Use personal protective equipment. Wear eye protection. Avoid contact with skin and eyes.

**6.2. Environmental precautions**

Environmental precautions: prevent further leakage or spillage if safe to do so. No special environmental precautions required.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Spill can be cleaned manually. After cleaning, flush away traces with water.

**6.4. Reference to other sections**

See sections 8 and 13 of this FDS.

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

Advice for safe handling: Wear individual protective glasses.

Advice to avoid the creation of new risks for health and the environment: Not required. There are no special risks to health and the environment.

Advice on general hygiene measures: Wash hands after each use. Avoid contact with the eyes.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures/ Storage conditions: Keep tightly closed in a dry and cool place.

Incompatible products: Strong oxidizing agents, strong bases.

**7.3. Specific end use(s)**

Specific use: Various applications as cleaner in installations.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Occupational exposure limits: Not required.

**8.2. Exposure controls**

Individual protection measures:

Respiratory protection: Not necessary.

Eye protection: Eyes protection.

Hands/ Skin protection: Not necessary.

Environmental exposure controls:

No special environmental precautions are required.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

|   |                                      |
|---|--------------------------------------|
| <b>Appearance</b>                                     | White Solid                          |
| <b>Odor</b>   | Orderless                            |
| <b>Olfatory threshold</b>                             | N/A*                                 |
| <b>pH</b>   | 1.8 (25 °C, at 5 %w/w)               |
| <b>Melting point / freezing point</b>                 | ca. 153 °C                           |
| <b>Initial boiling point / boiling range</b>          | N/A                                  |
| <b>Flash point</b>                                    | N/A                                  |
| <b>Evaporation Rate</b>                               | It does not evaporate                |
| <b>Flammability (solid, gas)</b>                      | Non flammable                        |
| <b>Upper / lower flammability or explosive limits</b> | N/A                                  |
| <b>Vapor pressure</b>                                 | 0.00000221 Pa (25 °C)                |
| <b>Vapour density</b>                                 | -                                    |
| <b>Density</b>  | 1.67 g/cm <sup>3</sup> (20 °C)       |
| <b>Solubility(ies)</b>                                | Very soluble                         |
| <b>Partition coefficient: n-octanol/water</b>         | -                                    |
| <b>Auto-ignition temperature</b>                      | N/A                                  |
| <b>Decomposition temperature</b>                      | It does not decompose                |
| <b>Viscosity</b>                                      | 6.5 cP (25 °C, 50% aqueous solution) |
| <b>Explosive properties</b>                           | It does not explode                  |
| <b>Oxidising properties</b>                           | Non-oxidising                        |

\* N/A: Not apply.

**9.2. Other information**

Not required.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No further relevant information available.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known.

**10.4. Conditions to avoid**

No further relevant information available.

**10.5. Incompatible materials**

Possible reactions with strong bases, oxidizing agents.

**10.6. Hazardous decomposition products**

No dangerous decomposition products known in case of fire. The decomposition products derived from the container are typical of plastic materials.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

The relevant hazard class of this product: Lesion or serious eye irritation.

Acute toxicity: Oral (mouse): LD50 = 5400 mg/Kg

Oral (rat): DL50 = 11700 mg/Kg

Oral (rabbit): DL50 = 700 mg/Kg

Dermal (rat): DL50 > 2000 mg/Kg

Inhalation: There are no data available, so it is not considered relevant for classification purposes.

Skin irritation: Not irritating.

Respiratory or skin sensitisation: Study scientifically not necessary.

Germ cell mutagenicity: It is not considered mutagenic.

Carcinogenicity: It is not considered carcinogenic.

Reproductive toxicity: It is not considered toxic for reproduction.

STOT-single exposure: Not required.

STOT-repeated exposure: Not required.

Aspiration hazard: Not required.

Likely routes of exposure: Eye exposure (splashes of product in the eyes or contact with hands/ skin).

Symptoms related to the physical, chemical and toxicological characteristics: May cause irritation and pain may occur in eyes. It does not irritate the skin

Delayed and immediate effects as well as chronic effects from short and long-term exposure: Not required.

Interactive effects: Not required.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

DIN 38412 Part 15 (DIN en ISO 7346): Toxicity to fish= 440 – 760 mg/l

DIN 38412 Part 5: Toxicity for bacteria > 10000 mg/l

**12.2. Persistence and degradability**

Chemical oxygen demand (COD) = 750 ± 50 mg O<sub>2</sub>/g

Biochemical Oxygen Demand in 5 days (BOD<sub>5</sub>) = 625 ± 50 mg O<sub>2</sub>/g

97% Biodegradable.

**12.3. Bioaccumulative potential.**

No bioaccumulation expected.

**12.4. Mobility in soil**

Totally soluble

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

This product is not considered persistent, bioaccumulative or toxic (PBT).

This product is not considered to be very persistent or very bioaccumulative (vPvB).

**12.6. Other adverse effects**

Maintaining the right management conditions should not expect ecological problems.



**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Waste treatment of the product: No special treatment.

Treatment of packaging waste: Empty contaminated containers appropriately. They can be recycled as plastics after proper cleaning (rinse the container with water).

\* Without special precautions.

**SECTION 14: TRANSPORT INFORMATION**

Non-dangerous goods for ADR, RID, ADN, IMDG and ICAO according to United Nations Standard Regulations.

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not required.

**14.3. Transport hazard class(es)**

Not required.

**14.4. Packing group**

Not required.

**14.5. Environmental hazards**

Not required.

**14.6. Special precautions for user**

None.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not required.

**SECTION 15: REGULATORY INFORMATION**

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

- This Safety Data Sheet complies with Commission REGULATION (EC) 2015/830 amending 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).



- The product placed in the market complies with the 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 – CLP.
- REGULATION (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
- Real Decreto 770/1999, de 7 de mayo, por el que se aprueba la Reglamentación técnico-sanitaria para la elaboración, circulación y comercio de detergentes y limpiadores.

**15.2. Chemical safety assessment**

The chemical safety assessment of the substance has been carried out.

**SECTION 16: OTHER INFORMATION**

The information provided in this safety data sheet is correct to the best of our knowledge at the time of its review. The information given only describes the products with respect to safety provisions and should not be considered as a warranty or specification of quality, nor constitute a legal relationship. The information contained in this safety data sheet applies only to the specific material indicated and may not be valid if used in combination with other products or in any process, unless otherwise specified in the text.

|                                 |   |
|---------------------------------|---|
| <b>Hazard class</b>             | Severe eye injury or irritation.  |
| <b>Category of danger</b>       | Category 2  |
| <b>Hazard statements</b>        | H319 Causes serious eye irritation.   |
| <b>Word of warning</b>          | Attention   |
| <b>Precautionary statements</b> | <p>Prevention:</p> <ul style="list-style-type: none"> <li>- P102 Keep out of reach of children.</li> <li>- P264 Wash the hands thoroughly after handling.</li> <li>- P280 Wear eye protection.</li> </ul> <p>Intervention:</p> <ul style="list-style-type: none"> <li>- P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>- P337 + P313 If eye irritation persists: Get medical advice/attention.</li> </ul> |