

# Trafalgar Chemicals - Safety Data Sheet

**1583-CO**

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.0  
(Replaces revision 1.1 of 16 April 2021)Revision date: 06 November 2023  
Date printed: 18 September 2025

## Section 1. Identification

### 1.1 Product Identifier 1583-CO

Product Name CITRIC ACID ANHYDROUS pure 500g.

CAS Number 77-92-9

REACH Registration No 01-2119457026-42-XXXX

Molecular Formula  $C(OH)(COOH)(CH_2COOH)_2 = 192.12$ 

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

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

### 1.3 Supplier Trafalgar Chemicals

Trafalgar Scientific Ltd.  
190 Waterside Road  
Leicester  
Leicestershire  
LE5 1QZ  
UNITED KINGDOM

Phone 0116 2879460

Email info@trafalgarscientific.co.uk

Website www.trafalgarscientific.co.uk

### 1.4 Emergency Telephone (08:00-17:00) +44(0) 116 2879460 (24hr) 112 (Have this document to hand)

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 &amp; UK SI 2020/1567

Serious eye damage/irritation, category 2

H319: Causes serious eye irritation.

Spec target organ tox - single, category 3

H335: May cause respiratory irritation.

### 2.2 Label elements

Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 &amp; UK SI 2020/1567

Signal word

Warning

Hazard Pictograms



Hazard Statements

Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements    Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical advice/attention.

## Section 3. Composition

### 3.1 Substances

| Component   | CAS No. | EC No.    | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE) |
|-------------|---------|-----------|-----------------------|----------|-----------------------------------|
| Citric Acid | 77-92-9 | 201-069-1 | 01-2119457026-42-XXXX | 100%     | Eye Irrit. 2, STOT SE 3 (I)       |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |                                                                                                                                          |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION. |
| Skin                                 | Wash off skin thoroughly with water.                                                                                                     |
| Inhalation                           | Remove from exposure. Seek medical attention if irritation persists.                                                                     |
| Ingestion                            | Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.              |
| Personal protection for first aiders | Wear protective gloves / eye protection.                                                                                                 |

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |                    |
|---------------------|--------------------|
| Extinguishing Media | Water spray.       |
| Unsuitable Media    | Nothing specified. |

### 5.2 Special hazards arising from the substance or mixture

|         |                                              |
|---------|----------------------------------------------|
| Hazards | May support combustion at high temperatures. |
|---------|----------------------------------------------|

### 5.3 Advice for firefighters

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Advice for firefighters | Consider all other materials in the vicinity. |
|-------------------------|-----------------------------------------------|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                     |                            |
|---------------------|----------------------------|
| Personal Protection | Presents no major hazards. |
|---------------------|----------------------------|

### 6.2 Environmental precautions

|               |                                         |
|---------------|-----------------------------------------|
| Environmental | Presents no major environmental hazard. |
|---------------|-----------------------------------------|

### 6.3 Methods and material for containment and cleaning up

|                |                                                                                          |
|----------------|------------------------------------------------------------------------------------------|
| Major Spillage | Shovel/sweep up into container for removal Wash area down with copious amounts of water. |
| Minor Spillage | Wash area down with copious amounts of water.                                            |

### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

| Component   | CAS No  | Concentration | Workplace Exposure Limits |                          |
|-------------|---------|---------------|---------------------------|--------------------------|
|             |         |               | Long Term (8hr TWA)       | Short Term 15min period) |
| Citric Acid | 77-92-9 | 100%          | -                         | -                        |

Exposure data source(s)      No occupational exposure data currently available.

### 8.2 Exposure controls

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| Respiratory Protection | If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.                              |
| Hand Protection        | Wear gloves.                                                                                                       |
| Eye Protection         | Use tightly fitting chemical splash proof glasses or goggles.                                                      |
| Skin Protection        | Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn. |
| Special Hazards        | No special precautions required.                                                                                   |

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                       |                                       |
|-----------------------|---------------------------------------|
| Appearance            | White crystalline powder or granules. |
| Odour                 | No specific odour.                    |
| pH                    | 1.8 @ 25°C (5% solution)              |
| Boiling Point         | Not available                         |
| Melting Point         | 153°C                                 |
| Flash Point           | Not applicable                        |
| Upper Flammable Limit | Not applicable                        |
| Lower Flammable Limit | Not applicable                        |
| Auto Ignition         | Not applicable                        |
| Explosive Properties  | No.                                   |
| Oxidising Properties  | No.                                   |
| Vapour Pressure       | Not applicable                        |
| Relative Density      | 1.6650                                |
| Water Solubility      | 590 g/L                               |

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

|                                         |                                |
|-----------------------------------------|--------------------------------|
| 10.1 Reactivity                         | No data available.             |
| 10.2 Chemical Stability                 | Stable under normal conditions |
| 10.3 Possibility of hazardous reactions | No data available.             |
| 10.4 Conditions to Avoid                | No specific conditions.        |

- |             |                                  |                                                                                  |
|-------------|----------------------------------|----------------------------------------------------------------------------------|
| <b>10.5</b> | Incompatible materials           | Strong oxidising agents. Alkalies. Reducing agents.                              |
| <b>10.6</b> | Hazardous Decomposition Products | None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| Eyes                 | Irritating to eyes.                                                                           |
| Skin                 | Contact with the solid or dust may be irritating to the skin.                                 |
| LD50 Skin            | >2000mg/kg Rat                                                                                |
| Ingestion            | Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hyperpnoea and convulsions. |
| LD50 Oral            | 5040mg/kg Rat                                                                                 |
| Inhalation           | Inhalation of dust may produce irritation of the eyes, nose, throat and respiratory tract.    |
| LD50 Inhalation      | Not available                                                                                 |
| TCLo                 | Not available                                                                                 |
| Carcinogenicity      | Not considered to be a carcinogen.                                                            |
| Mutagenicity         | Not considered to be a mutagen.                                                               |
| Reproductive Effects | None identified.                                                                              |
| Other Information    | Used in the food industry.                                                                    |

## Section 12. Ecological

- |             |                                  |                                                                                                                                        |
|-------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1</b> | Toxicity                         | Readily bio-degraded in the environment. Does not bioaccumulate. Practically non toxic to: fish LC50- >100mg/l, daphnia EC50 >100mg/l. |
|             | LC50 Algal                       | Not available                                                                                                                          |
|             | LC50 Crustacea                   | Not available                                                                                                                          |
|             | LC50 Fish                        | Not available                                                                                                                          |
| <b>12.2</b> | Persistence and degradability    | No data available.                                                                                                                     |
| <b>12.3</b> | Bioaccumulative potential        | No data available.                                                                                                                     |
| <b>12.4</b> | Mobility in soil                 | No data available.                                                                                                                     |
| <b>12.5</b> | Results of PBT & vPvB assessment | Assessment not required.                                                                                                               |
| <b>12.6</b> | Other adverse effects            | None known at present.                                                                                                                 |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Disposal Methods       | Do not dispose of as domestic waste. Dispose of to a licensed land fill site. |
| Contaminated Packaging | Wash out containers with water. Use a licensed waste disposer.                |

## Section 14. Transport Information

|                                          |                                  |
|------------------------------------------|----------------------------------|
| <b>14.1 UN Number</b>                    | Non-restricted                   |
| <b>14.2 Proper Shipping Name</b>         | Non-restricted                   |
| <b>14.3 Transport classes</b>            |                                  |
| UN classification                        | None                             |
| Subsidiary hazard(s)                     | None                             |
| Transport category                       | None                             |
| ADR Hazard ID                            | Non-restricted                   |
| Tunnel Restriction Code                  | Non-restricted                   |
| <b>14.4 Packing Group</b>                | None                             |
| <b>14.5 Environment hazards</b>          | See section 12.                  |
| <b>14.6 Special precautions for user</b> | No special precautions required. |
| <b>14.7 Transport in bulk</b>            | Not transported in bulk.         |

## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

**Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567**

Classification Serious eye damage/irritation, category 2; Spec target organ tox - single, category 3

Signal word Warning

Hazard Pictograms



Hazard Statements H319, H335  
Causes serious eye irritation. May cause respiratory irritation.

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

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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