



Allergen Statement

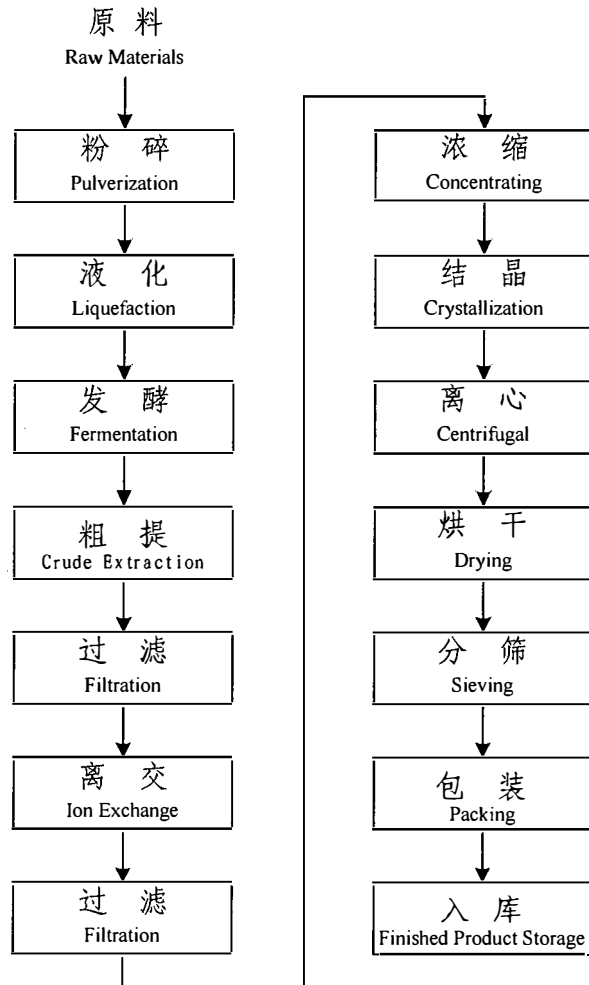
Date: January 1, 2018

Product: Citric Acid Anhydrous; Citric Acid Monohydrate

Allergen	Present in product	Used in same equipment	Present in plant
Cereals containing gluten(i.e. wheat, rye, barley, oats, spelt, kamut or their hybridized strains) and products thereof	No	No	No
Crustaceans and products thereof	No	No	No
Eggs and products thereof	No	No	No
Fish and products thereof	No	No	No
Peanuts and products thereof	No	No	No
Soybeans and products thereof	No	No	No
Milk and products thereof (including lactose)	No	No	No
Nuts i.e. Almond (<i>Amygdalus communis</i> L.), Hazelnut (<i>Corylus avellana</i>), Walnut (<i>Juglans regia</i>), Cashew (<i>Anacardium occidentale</i>), Pecan nut (<i>Carya illinoensis</i> (Wangenh) K. Koch), Brazil nut (<i>Bertholletia excelsa</i>), Pistachio nut (<i>Pistacia vera</i>), Macadamia nut and Queensland nut (<i>Macadamia temifolia</i>) and products thereof	No	No	No
Celery and products thereof	No	No	No
Mustard and products thereof	No	No	No
Sesame seeds and products thereof	No	No	No
Molluscs and products thereof	No	No	No
Lupin and products thereof	No	No	No
Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO ₂	No	No	No



PRODUCTION FLOW CHART FOR CITRIC ACID





STATEMENT

Date: January 1, 2018

To Whom It May Concern,

We hereby declare that the raw and auxiliary materials used in our production of Citric Acid are Non-GMO. Our suppliers of corn confirm that they have not applied any genetic modification technology in their process nor be there any genetically modified ingredients in the raw and/or auxiliary materials they used therein.

In the process of manufacturing Citric Acid, we use only one microorganism *aspergillus niger*, which is confirmed not to be genetically modified either. We, therefore, declare that Citric Acid we produce is Non-GMO.

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

1.1 Product identifier**Trade name:** Citric Acid Anhydrous**CAS number:**

77-92-9

EC number:

201-069-1

1.2 Relevant identified uses of the substance or mixture and uses advised against**Application of the substance / the preparation:**

Intermediate

Formulation

Detergents and cleaning products

Agricultural applications

Personal care products

Paper industry

Construction products

Polymers and plastics

Oil industry

Textile industry

Paints and coatings

Photography products

Laboratory reagents

Water treatment

Treatment of metal surfaces

Medical devices

1.3 Details of the supplier of the safety data sheet

Naturally Balmy Ltd

8 Benson Road, Nuffield Industrial estate, Poole, BH17 0GB

Tel +44 (0)1202567046

E-mail: sales@naturallybalmy.co.uk

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008:**

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS07

Signal word: Warning

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according to 1907/2006/EC, Article 31

Revision 15.06.2017

Version number 3

Superseded version: No 2/22.03.2014

Trade name: Citric Acid Anhydrous**Hazard statements:**

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash thoroughly after handling.

P280 Wear 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.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** No PBT.**vPvB:** No vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances**CAS Number. Description.**

77-92-9 Citric Acid Anhydrous

Identification number(s)**EC number:** 201-069-1

SECTION 4: First aid measures

4.1 Description of first aid measures**After inhalation:** Move patient to fresh air, if symptoms persist consult a doctor.**After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Serious eye damage/eye irritation: Eye Irrit. 2

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**5.2 Special hazards arising from the substance or mixture**Carbon dioxide (CO₂)

Carbon monoxide (CO)

5.3 Advice for firefighters**Protective equipment:**

Wear fully protective suit.



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Trade name: Citric Acid Anhydrous

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Send for recovery or disposal in suitable receptacles.
Retrieve the product by mechanical means.
Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well ventilated areas.
Provide suction extractors if dust is formed.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool, dry location in well sealed receptacles.
Provide ventilation for receptacles.
Store only in the original receptacle.

Information about storage in one common storage facility: Store away from oxidising agents.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

PNECs

77-92-9 Citric Acid Anhydrous

PNEC	0.44 mg/L (Water (Freshwater)) 0.044 mg/L (Water (Marine Water)) >1000 mg/L (Sewage Treatment Plant (STP))
PNEC	3.46 mg/kg sedim. dw (Sediment (Marine Water)) 34.6 mg/kg sedim. dw (Sediment (Freshwater))
PNEC	33.1 mg/kg soil dw (Soil)

Additional information: The lists valid during the making were used as basis.

Trade name: Citric Acid Anhydrous

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.

Respiratory protection: Suitable respiratory protective device recommended.**Protection of hands:**

Protective gloves.

Material of gloves: Rubber, PVC or neoprene gloves recommended.**Eye protection:**

Tightly sealed goggles (EN 166).

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid.
Crystalline
Colour: White.

Odour: Odourless.
Odour threshold: Not determined.

pH-value (100 g/l) 1.7

Melting point/freezing point: 153 °C

Initial boiling point and boiling range: Not determined.
Decomposes before boiling

Flash point: Not applicable.

Flammability (solid, gas): Product is not flammable.

Ignition temperature: Not applicable.

Decomposition temperature: Not determined.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.
Upper: Not determined.

Oxidising properties Not oxidising.

Vapour pressure at 25 °C: 2.21*10⁻⁶ Pa

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Trade name: Citric Acid Anhydrous

Density:	Not determined.
Relative density at 20 °C	1.665
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water at 20 °C:	590 g/l
Alcohols:	Partly soluble.
Partition coefficient: n-octanol/water:	-0.2 - -1.8 log Pow
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No data available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: Stable at environment temperature.

10.3 Possibility of hazardous reactions Reacts with alkali (lyes).

10.4 Conditions to avoid Keep away from heat and direct sunlight.

10.5 Incompatible materials

Protect from moisture.

Avoid strong oxidants, strong alkalis and strong acids.

10.6 Hazardous decomposition products

Carbon dioxide

Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values:

77-92-9 Citric Acid Anhydrous

Oral	LD50	5400 mg/Kg bw (Mouse) (OECD 401)
Dermal	LD50	>2000 mg/Kg bw (Rat) (OECD 402)

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.



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Trade name: Citric Acid Anhydrous

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

77-92-9 Citric Acid Anhydrous

LC50/48h	440 mg/L (Fish) (OECD 203)
NOEC	425 mg/L (Algae)
LC50/24h	1535 mg/L (Daphnia Magna)

12.2 Persistence and degradability Readily biodegradable.

12.3 Bioaccumulative potential Does not accumulate in organisms.

12.4 Mobility in soil pKa 3.13, 4.76 and 6.4 at 25 °C

12.5 Results of PBT and vPvB assessment

PBT: No PBT.

vPvB: No vPvB.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Packaging that may not be cleansed must be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN Number

ADR, ADN, IMDG, IATA Not applicable.

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Not applicable.

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class Not applicable.

14.4 Packing group

ADR, IMDG, IATA Not applicable.

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user Not applicable.

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

Not applicable.



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Trade name: Citric Acid Anhydrous

SECTION 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

*** Data compared to the previous version altered.**

Classification and labelling according to Directive 67/548/EEC in section 2 has been removed.



DFI-486915V02

SPECIFICATION

Citric Acid Anhydrous 30-100 Mesh Powder

BP, USP, FCC, E330

DESCRIPTION	
Shelf life	36 months
CAS No.	77-92-9
Appearance	White crystalline powder
Appearance of solution	Pass test
Country of origin	China
Molecular Formula	C ₆ H ₈ O ₇
Molecular weight	192.1
Characteristic	White or almost white, crystalline powder, colourless crystals or granules. Odourless, has a strongly acid taste. Very soluble in water, freely soluble in ethanol.
Storage	Store in tightly closed original container in a dry, cool, well-ventilated place.
SPECIFICATIONS	
Identification	Pass test
Assay	99.5 - 100.5 %
Water	Max 0.5 %
Readily Carbonisable Substances	Passes test
Sulphate	Max 150 mg/kg
Oxalate	Max 100 mg/kg
Calcium (Ca)	Max 75 ppm
Iron (Fe)	Max 5 ppm
Sulphated ash	Max 0.05 %
Lead	Max 0.5 mg/kg
Arsenic	Max 1 mg/kg
Mercury	Max 1 mg/kg
Aluminium	Max 0.2 mg/kg
Heavy metals	Max 10 mg/kg
Organic Volatile Impurities	Pass test
Packaging	25kg, 500kg and 1000kg
MICROBIOLOGICAL	
Bacterial Endotoxin	Max 0.5 IU/mg

Exclusion of Liability

Information contained in this document is accurate to the best of knowledge and beliefs of Naturally Balmy Limited. However, it remains at all time the responsibility of the customer to ensure that Naturally Balmy Limited materials are suitable and meet the regulations for the particular purpose intended. Naturally Balmy Limited accepts no liability whatsoever (except as otherwise provided by law) arising out of the use of information supplied.



Statement

Date: April 12, 2018

Products: Citric Acid Anhydrous;
Citric Acid Monohydrate;

To Whom It May Concern,

We hereby declare that the above-mentioned product we produce is suitable for vegans.