

## Safety Data Sheet

### Section 1 – Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or mixture

Product name: Citric Acid, Anhydrous

Catalog number: 600-098-\*\*

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

#### Company details

Wisent Inc.

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Wisent Inc.

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### Section 2 – Hazards identification

#### Classification of the substance or mixture GHS

##### **Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)**

Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### GHS Label elements, including precautionary statements

##### **Pictogram**



##### **Signal word**

Warning

##### **Hazard statement(s)**

H319 Causes serious eye irritation.

##### **Precautionary statement(s)**

P264 Wash skin 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.

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

### Section 3 – Composition/Information on ingredients

**Formula :** C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>

**Molecular weight :** 192.12 g/mol

**CAS-No. :** 77-92-9

**EC-No. :** 201-069-1

Component	Classification	Concentration
Citric acid	Eye Irrit. 2A; H319	<= 100 %

#### Section 4 – First aid measures

##### Description of first aid measures

###### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

###### **Ingestion**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

###### **Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

###### **Skin contact**

Rinse with plenty of soap and water. Consult a physician.

###### **Eye contact**

Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

###### **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling.

###### **Information for doctor**

No data available

#### Section 5 – Firefighting measures

##### Extinguishing media

###### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides

###### **Advice for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

###### **Further information**

No data available

#### Section 6 – Accidental release measures

**Personal precaution, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Environmental precautions**

Do not let product enter drains.

**Reference to other sections**

For disposal see section 13.

**Section 7 – Handling and storage****Precaution for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Condition for safe storage, including any incapability**

Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 13: Non Combustible Solids

**Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**Section 8 – Exposure controls/personal protection****Control parameters****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators

and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

**Section 9 – Physical and chemical properties**

**Information on basic physical and chemical properties**

Appearance	powder
Colour	white
Odour	No data available
Odour Threshold	No data available
pH	1.8 at ca.50 g/l at 25 °C (77 °F)
Melting point/ freezing point	Melting point/range: 153 - 159 °C (307 - 318 °F)
Boiling point	No data available
Flash point	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Evaporation rate	No data available
Flammability	No data available
Upper explosion limit	No data available
Lower explosion limit	Lower explosion limit: 8 %(V)
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Relative vapour density	No data available
Specific gravity	No data available
Water Solubility	383 g/l at 25 °C (77 °F)
Solubility (solvents)	No data available
Partition coefficient	No data available
Explosive properties	No data available
Oxidizing properties	No data available

**Section 10 – Stability and reactivity**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Condition to avoid**

Exposure to moisture

**Incompatible materials**

Oxidizing agents, Bases, Reducing agents, Nitrates

**Hazardous decomposition products**

Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Carbon oxides In the event of fire: see section 5

**Section 11 – Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

LD50 Oral - Mouse - male and female - 5,400 mg/kg

(OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

No data available

**Skin corrosion/Irritation**

Eyes - Rabbit

Result: Irritating to eyes.

(OECD Test Guideline 405)

(ECHA)

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Mild eye irritation - 30 s

**Respiratory or skin sensitisation**

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Germ cell mutagenicity**

Mutagenicity (mammal cell test): micronucleus.

Human lymphocytes

Result: positive

Ames test

Salmonella typhimurium

Result: negative

OECD Test Guideline 475

Rat - male - Bone marrow

Result: negative

Regulation (EC) No. 440/2008, Annex, B.22

Rat - male and female

Result: negative

**Carcinogenicity**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

Specific target organ toxicity - repeated exposure

No data available

**Aspiration hazard**

No data available

**Additional Information**

Vomiting, Diarrhoea, Damage to tooth enamel., Dermatitis To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Section 12 – Ecological information**

**Toxicity**

**Toxicity to fish**

static test LC50 - Leuciscus idus melanotus - 440 mg/l - 48 h (OECD Test Guideline 203)

**Toxicity to daphnia and other aquatic invertebrates**

static test LC50 - Daphnia magna (Water flea) - 1,535 mg/l - 24 h Remarks: (ECHA)

**Persistence and degradability**

No data available

**Biochemical Oxygen Demand (BOD)**

526 mg/g Remarks: (IUCLID)

**Chemical Oxygen Demand (COD)**

728 mg/g Remarks: (IUCLID)

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

Additional ecological information No data available

**Section 13 – Disposal considerations**

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**



Dispose of as unused product.

#### **Section 14 – Transport information**

**DOT (US)**

Not regulated as dangerous

**IATA**

Not regulated as dangerous

**IMDG**

Not regulated as dangerous

#### **Section 15 – Regulatory information**

**WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

#### **Section 16 – Other information**

MSDS Date of revision: June 2019

For research use only. Not use for diagnostic procedures.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.