

CITRIC ACID MONOHYDRATE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: CITRIC ACID MONOHYDRATE

Product Code: TMB 093 **CAS#:** 5949-29-1

Synonym: Not available.

Chemical Name: Not available.

Chemical Formula: C₆H₈O₇.H₂O

Formula Weight: 210.14

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name: Citric Acid Monohydrate

Toxicological Data on Ingredients: Eye Irrit. 2; H319

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye irritation (Category 2), H319

Potential Acute Health Effects: Not available.

Potential Chronic Health Effects: Not available.

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Not Available

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention. **Serious Inhalation:** Not Available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms

appear

Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

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

Special hazards arising from the substance or mixture









MATERIAL SAFETY DATA SHEET



Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Storage conditions:

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Storage class:

Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection

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.

Respiratory protection

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Crystalline Odor Odorless White Color **Molecular Weight** Not available Not available рΗ **Boiling Point** Not available **Melting Point** Not available **Critical Temperature** Not available **Specific Gravity** Not available **Vapor Pressure** Not available **Vapor Density** Not available Volatility Not available **Odor Threshold** Not available



MATERIAL SAFETY DATA SHEET

Water/Oil Dist. Coeff.:Not availableIonicity (in Water):Not availableDispersion Properties:Not availableSolubility:Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature).

Instability Temperature: Not available **Conditions of Instability:** Not available

Incompatibility with various substances: Oxidizing agents, Bases, Reducing agents, Nitrates, Strong oxidizing agents

Special Remarks on Corrosivity: Non corrosive. **Special Remarks on Reactivity:** Not available

Possibility of hazardous reactions: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Hazardous decomposition products: In case of fire.

SECTION 11: TOXICOLOGICAL INFORMATION.

Acute Toxicity: Not available Inhalation: No data available Dermal: No data available

Routes of Entry: Inhalation, Ingestion

Toxicity to Animals:

LD50 Oral - Mouse - male and female - 5.400 mg/kg LD50 Dermal - Rat - male and female - > 2.000 mg/kg

Chronic Effects on Humans: Prolonged or repeated exposure may cause allergic reactions in certain sensitive

individuals

Other Toxic Effects on Humans: Vomiting, Diarrhoea, Damage to tooth enamel., Dermatitis

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

investigated.

Special Remarks on Toxicity to Animals: Not available

Special Remarks on other Toxic Effects on Humans: Not available

Potential Health Effects: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to fish static test LC50 - Leuciscus idus melanotus - 440 mg/l - 48 h

Toxicity to daphnia static test LC50 - Daphnia magna (Water flea) - 1.535 mg/l - 24 h and other aquatic

invertebrates

BOD and COD:

Biochemical Oxygen 481 mg/g

Demand (BOD)

Chemical Oxygen 685 mg/g

Demand (COD)

Theoretical oxygen 686 mg/g

demand

Products of Biodegradation: Not available

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS





MATERIAL SAFETY DATA SHEET

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID: IMDG: IATA:

UN proper shipping name
ADR/RID:Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
Transport hazard class(es):

ADR/RID: IMDG: IATA:

Packaging group:

ADR/RID: IMDG: IATA:

Environmental hazards:

ADR/RID: no IMDG Marine pollutant: no IATA: no

SECTION 15: REGULATORY INFORMATION

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

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

REACH - Restrictions on the manufacture : Not applicable placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements: H319 Causes serious eye irritation.

Other Special Considerations: Not available

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