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SECTION 1 :: PRODUCT IDENTIFICATION

Trade name: Citri-FINE
Chemical Name: Citric Acid, Anhydrous
INCI: Citric Acid

SECTION 2 :: DATA ON COMPONENTS

Citric Acid, 2-Hydroxy-1,2,3-propanetricarboxylic acid
8-hr TWA for nuisance particulate
15 mg/m³ (total dust)
5 mg/m³ (resp fract.)
ACGIH TLV
TWA 10 mg/m³ (nuisance particulate)
Orl-rat LD50 11,700 mg/kg
Dermal acute 500mg/24hr moderate
Eye 750 mg/24hr severe

SECTION 3 :: HAZARDS IDENTIFICATION

HMIS rating:

Health = 1 Flammability = 1 Reactivity = 0

Routes of Entry: skin contact, ingestion, inhalation of mist

Health effects (Acute and chronic): prolonged contact with the product may cause irritation

Carcinogenicity = no

NTP = no

IARC monographs = no

OSHA regulated = no

Signs and symptoms of exposure: may be slight eye irritant, long term exposure to skin could be a mild irritant

Medical conditions generally aggravated by exposure: no information available

Eyes: no data

Skin: no data

Inhalation: no data

Ingestion: no data

Physical/Chemical Hazards: Aqueous solutions of Citric Acid can, if in contact with reactive metal (iron, zinc, aluminum) form hydrogen which may form explosive mixtures.

SECTION 4 :: FIRST AID MEASURES

Eyes: immediately flush with plenty of water for 15 minutes. Call a physician

Skin: wash area with water, remove contaminated clothing and launder before use

Inhalation: no data

Ingestion: no data

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SECTION 5 :: FIRE FIGHTING MEASURES

Flash Point (method used): ignition temp 1000 – 1020°C

Flammable Limits

LEL

UEL

Min. 8g/cuft

0.28

2.29 kg/m3

Opt. 65 g/cuft

Special Fire fighting procedures: Fire fighters wear protective clothing and NIOSH approved respirator.

Unusual Fire and Explosion hazards: none – at optimum air concentration **Bureau of Mines Relative:** explosive rating = weak

Extinguishing media: Water, carbon dioxide, foam, powder extinguisher

SECTION 6 :: ACCIDENTAL RELEASE MEASURES

Procedures for Spill/Leak Cleanup: Recover by vacuum or broom and shovel. Flush area with water to remove final traces.

SECTION 7 :: HANDLING AND STORAGE

Precautions to be taken in handling and storage: Store in a dry area.

SECTION 8 :: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: NIOSH approved chemical respirator with dust and mist filter while handling crystalline material and concentrated solutions.

Ventilation: Local exhaust sufficient to control dust

Protective gloves: standard work gloves

Eye protection: safety glasses

Other protective clothing or equipment: none

SECTION 9 :: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: free flowing, colorless, translucent crystals or as a white granular to fine crystalline powder

Odor: none

Identification: meets USP/FCC tests

Assay (anhydrous basis): 99.5 – 100.5%

Water: maximum 0.5%

Residue on ignition: maximum 0.05%

Oxalate: Meets USP/FCC tests

Sulfate: meets USP tests

Heavy metals (as lead) Maximum 5.0 ppm

Lead: maximum 0.5 ppm

Arsenic: maximum 1.0 ppm

Readily carbonizable substances: not darker than matching fluid K

Organic Volatile Impurities: meets USP test

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Solubility (g/100 ml at 25°C) water: 162 Alcohol: 59.1
Vapor pressure (mm HG): not applicable
Vapor density (Air=1): not applicable
Solubility in water: greater than 50%
Specific gravity (H₂O = 1): 1.665
Melting Point: 153°C
Evaporation Rate (Butyl Acetate = 1): >1

SECTION 10 :: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions
Conditions to avoid if unstable: none known
Incompatibility with other materials: metal nitrates, carbonate, bicarbonates and strong oxidizers....citric acid corrodes copper, zinc, aluminum and their alloys
Hazardous polymerization: will not occur
Hazardous decomposition products: none known
Conditions to avoid: generating dust

SECTION 11 :: TOXICOLOGY INFORMATION

No data

SECTION 12 :: ECOLOGY INFORMATION

No data

SECTION 13 :: DISPOSAL CONSIDERATIONS

Conform to applicable federal, state and local regulations. Landfill or neutralize and flush to drain. Material is biodegradable in waste treatment facility.

SECTION 14 :: TRANSPORT INFORMATION

No data.

SECTION 15 :: REGULATIONS

This Food Additive complies with all the compendial requirements of the U.S. Pharmacopoeia, Food Chemical Codex, Code of Federal Regulations, European Pharmacopoeia, British Pharmacopoeia, and W.H.O./F.A.O. Food Additive Specification.

SECTION 16 :: COMMENTS

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Ingredients To Die For or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and

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(MSDS)
MATERIAL SAFETY DATA SHEET

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suitable to their circumstances.

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