

**MATERIAL SAFETY DATA SHEET**  
**CITRIC ACID**  
SECTION I – PRODUCT IDENTIFICATION

ORGANIC COMPOUNDS, INC.

1265 W. 16<sup>th</sup> Street  
Long Beach CA 90813

General or Generic Identification: Mixture  
DOT Hazard Class: Not Applicable

Reviewed: 01/01/03  
Telephone: 562 437 6334

SECTION II – COMPONENTS

No physical or health hazard components are present at or above 1%.

SECTION III – PHYSICAL DATA

Vapor Density (Air=1):	Not Tested
Specific Gravity ( Water=1):	-1.665
Solubility in Water:	100%
Vapor Pressure, mmHg at 20 <sup>o</sup> C:	Not Tested
Boiling Point, F <sup>o</sup> :	Not Tested
Melting Point, F <sup>o</sup> :	Not Tested
Evaporation Rate (Butyl Acetate=1):	Not Applicable.
Appearance and Odor:	White Crystals/Granules, Powder
Percent Volatile:	Not Applicable

SECTION IV – FIRE AND EXPLOSION DATA

NFPA DESIGNATION:

Health:	0 (Insignificant)
Fire:	0 (Insignificant)
Reactivity:	0 (Insignificant)

FLASH POINT (Method Used) Ignition Temperature (Powder) 1000<sup>o</sup>C

EXPLOSION LIMITS: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

FIRE EXTINGUISHING MATERIALS: Extinguishing agent for material that is burning.

There are NO SPECIAL FIRE FIGHTING PROCEDURES or UNUSUAL FIRE AND EXPLOSION HAZARDS.

SECTION V – HEALTH HAZARD DATA

PRIMARY ROUTE OF EXPOSURE:	Skin and Eye Contact, Inhalation
PERMISSIBLE EXPOSURE LIMITS AND THRESHOLD LIMITS VALUES:	None established for this product.
SYMPTOMS OF OVEREXPOSURE:	INHALATION: Possible Irritant
	SKIN CONTACT: Possible Irritant
	EYE CONTACT: Irritant
	INGESTION: Safe

ACUTE/CHRONIC EXPOSURE Long term oral overexposure may cause tooth enamel damage..

FIRST AID MEASURES

INHALATION:	Remove from exposure. If symptoms persist, contact medical personnel.
SKIN:	Wash with soap and water. If symptoms persist, contact medical personnel.
EYES:	Flush with water immediately, holding eyelids apart to ensure thorough rinsing. If symptoms persist, contact medical personnel.
INGESTION:	Material generally recognized as Safe.

TOXICITY DATA: CARCINOGENICITY: This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

SECTION VI – REACTIVITY DATA

STABILITY:	Stable
POLYMERIZATION:	Will not occur
There are no currently known Conditions to Avoid and No Hazardous Decomposition Products.	
Materials to Avoid:	Acids

## SECTION VII – SPILL, LEAK AND DISPOSAL PROCEDURES

Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

SPILL AND WASTE DISPOSAL PROCEDURES: Recover by broom or vacuum. Flush area with water.

## SECTION VIII – PROTECTIVE EQUIPMENT TO BE USED

Suitable protective clothing, gloves and footwear should be selected with regard for use, conditions and exposure potential. Have access to water. Follow good industrial hygiene and safety practices as with any industrial chemical.

EYE PROTECTION: Chemical goggles good practice if splashing conditions exists.

GLOVES: None likely to be needed.

VENTILATION: No special precautions under normal use. Local exhaust capable of minimizing dust/vapor/mist emissions at point of use below the lowest TLV/PEL.

RESPIRATORY: If use conditions generate vapors/mist/dust, wear a NIOSH approved respirator appropriate for those emission levels.

OTHER CLOTHING AND EQUIPMENT: None likely to be needed.

## SECTION IX – SPECIAL PRECAUTIONS OR OTHER COMMENTS

STORAGE AND HANDLING PRECAUTIONS: Keep container closed when not in use. Wash thoroughly after handling. Citric Acid, a naturally occurring compound, is widely distributed in plants and in animal tissues and its metabolic pathways have been well established. In man, Citric Acid is an important intermediate in the “Krebs Citric Acid Cycle” which represents the pathway of aerobic oxidation of pyruvic acid in the body. Citric Acid has a long history of safe use and is classified by the USFDA as “generally recognized as Safe for use in food.” In addition to the published evidence of safety, Pfizer Inc’s 50 years of experience in the manufacture of Citric Acid has shown that, under normal use and handling conditions, it is not an occupational health hazard.

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