

S A F E T Y D A T A S H E E T



Madison Chemical Co., Inc.

3141 Clifty Drive • Madison, IN 47250

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME: **ADDITIVE C**

TYPE: Citric Acid Solution
PRODUCT # LSBT17-022

EMERGENCY RESPONSE INFORMATION:

CHEMTREC 800-424-9300 24-Hour Service
Company Offices: 812-273-6000 Weekdays

PREPARED DATE: 06-28-17 **PREPARED BY:** Benjamin Terpening

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification	Skin Corrosion/Irritation	Category 3	H316
	Serious Eye Damage/Eye Irritation	Category 2B	H320
	Aquatic Toxicity (Acute)	Category 4	H413

Signal Word **WARNING**

Symbol None required.

Hazard Statements

H316	Causes mild skin irritation.
H320	Causes eye irritation.
H413	May cause long lasting harmful effects to aquatic life.

Precautionary Statements

P264	Wash hands and arms thoroughly after handling.
P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents / container according to local, regional, national and international regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Citric acid	None	77-92-9	45 - 55

*If Chemical Name/CAS No is "proprietary" and/or % By Weight is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SAFETY DATA SHEET

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

EYES: Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.

SKIN: Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.

INGESTION: Do not induce vomiting. Give water. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION: Move subject to fresh air and get medical attention.

PRIMARY ROUTE(S) OF ENTRY: Eyes.

MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

GENERAL: May cause skin and eye irritation.

EYE CONTACT: Contacted areas may exhibit irritation.

SKIN CONTACT: Contacted areas may exhibit irritation.

INGESTION: May be harmful if swallowed.

INHALATION: No hazard in normal use.

CHRONIC SYMPTOMS: This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Hazardous reactions will not occur under normal conditions.

ADVICE FOR FIRE FIGHTERS:

Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Impermeable type gloves. Safety eyewear to protect against unexpected splashes. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills with sand and absorb on inert material. Dispose with solid waste. See Waste Disposal Method. Flush remainder to drain with water

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Normal for acidic materials. Store away from alkalis. Keep container closed when not in use. Always add acids to water; never add water to acids.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

CHEMICAL IDENTITY

Citric Acid

CAS NO.

77-92-9

OSHA PEL

N.E.

ACGIH TLV

N.E.

ENGINEERING CONTROLS:

As necessary to avoid inhalation and contact.

INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

RESPIRATORY PROTECTION:

Not needed for normal use.

SKIN PROTECTION:

Impermeable type gloves. Other equipment as required to avoid contact.

EYE PROTECTION:

Safety eyewear to protect against unexpected splashes..

GENERAL HYGIENE CONSIDERATIONS:

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Clear liquid.

ODOR:

None.

ODOR THRESHOLD:

Not available.

pH (100%):

0.0 – 0.5

MELTING POINT/FREEZING POINT

Not available.

INITIAL BOILING POINT AND BOILING RANGE

212°F (100°C)

FLASH POINT (METHOD USED)

Not available.

EVAPORATION RATE

1.0 (water = 1).

FLAMMABILITY (SOLID, GAS)

Not available.

UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT

Not available.

VAPOR PRESSURE

Not available.

VAPOR DENSITY

Not available.

SPECIFIC GRAVITY

1.24

SOLUBILITY IN WATER

Complete.

PARTITION COEFFICIENT: N-OCTANOL/WATER

Not available.

AUTO-IGNITION TEMPERATURE

Not available.

VISCOSITY, DYNAMIC

Not available.

DECOMPOSITION TEMPERATURE

Not available.

VISCOSITY

Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:

Hazardous reactions will not occur under normal conditions.

CHEMICAL STABILITY:

Material is stable.

POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization will not occur.

CONDITIONS TO AVOID:

No data found.

INCOMPATIBLE MATERIALS:

Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide, carbon monoxide.

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SECTION 11: TOXOLOGICAL INFORMATION

ACUTE TOXICITY:	Not classified
LD50 AND LC50 DATA:	Not available.
ROUTES OF EXPOSURE / SYMPTOMS	
EYES:	WARNING! Causes eye irritation
SKIN:	WARNING! Causes mild skin irritation.
INGESTION:	WARNING! May be harmful if swallowed.
INHALATION:	WARNING! May cause nasal and respiratory irritation.
GERM CELL MUTAGENICITY:	Not classified.
TERATOGENICITY:	Not available.
CHRONIC EFFECTS / CARCINOGENICITY:	This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.
SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure):	Not classified.
REPRODUCTIVE TOXICITY:	Not classified.
SPECIFIC TARGET ORGAN TOXICITY (Single exposure):	Not classified.
ASPIRATION HAZARD:	Not classified.
COMPONENT INFORMATION:	
Citric acid	LD50 Oral Rat: 3000 mg/kg LD50 Dermal Rat: >2000 mg/kg LC50 Inhalation: No data.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	LC50 <i>Ceriodaphnia dubia</i> : 182.62 mg/L/48hr
PERSISTENCE AND DEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Bioaccumulation potential is low
MOBILITY IN SOIL:	Not available.
OTHER ADVERSE EFFECTS:	This material contains no hazardous air pollutants (HAPS).

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	Normal for mildly acidic wastes. . Dispose in accordance with local, state and federal regulations.
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SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:	Compound, Cleaning, n.o.i., Liquid
HAZARD CLASS:	Not applicable
IDENTIFICATION NUMBER:	Not applicable
PACKING GROUP:	Not applicable
EMERGENCY RESPONSE GUIDE:	Not applicable

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SECTION 15: REGULATORY INFORMATION

VOC: 0 pounds per gallon (0 grams per liter).
TSCA STATUS All ingredients are listed on the TSCA inventory.
CERCLA REPORTABLE QUANTITY None established

SARA 311 / 312 HAZARD CLASSES

x	ACUTE HEALTH
	FIRE
	SUDDEN RELEASE OF PRESSURE
	CHRONIC HEALTH
	REACTIVE

SARA 312 INFORMATION

Storage of 10,000 pounds or more may require filing a Tier 2 form. Threshold planning quantity for reporting is 10,000 pounds. This material is not an extremely hazardous substance (EHS).

SARA 313 INFORMATION

This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

CHEMICAL NAME
None

CATEGORY CODE

CAS NUMBER

% BY WEIGHT

STATE REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

SDS STATUS: Created SDS on 06-28-17.

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN