

1 MATERIAL AND COMPANY IDENTIFICATION

MATERIAL NAME: CITRIC ACID SOLUTION 50%

USES: CLEANING

COMPANY

Research Products, INC. of Alabama

6311 Highway 90 West

Theodore, Al 36582

(251)653-0030

Date Prepared: 7/13/2016

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2. HAZARDS IDENTIFICATION

CLASSIFICATION: IRRITANT

LABELLING:



SYMBOL:

SIGNAL WORD: WARNING

HAZARD STATEMENT:

Warning! . Causes skin and eye irritation. Harmful if swallowed. May cause nausea, vomiting, diarrhea, and cramps. May cause mild irritation to respiratory tract.

PRECAUTIONARY STATEMENTS:

Eye contact: May cause irritation, redness, pain, and tearing

Skin Contact: May cause irritation, redness, and pain.

Inhalation: May cause mild irritation

Ingestion: May cause nausea, vomiting, diarrhea, and cramps.

Chronic effects/Carcinogenicity: None

IARC-no

NTP-no

OSHA-no

3.COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME:	CAS NO.	CONCENTRATION
CITRIC ACID ANHYDROUS	77-92-9	50%
CHEMICAL NAME:	CAS NO.	CONCENTRATION
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CHEMICAL NAME:	CAS NO.	CONCENTRATION

4. FIRST AID MEASURES

INHALATION:

Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

SKIN CONTACT:

Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

EYE CONTACT:

Flush with water for 15 minutes, Raising the eyelid to insure thorough washing. Seek medical attention if irritation persists.

INGESTION:

Drink large quantities of water. Induce vomiting immediately. Seek medical attention

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

use any means suitable for extinguishing surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA:

NA

SPECIFIC HAZARDS IN CASE OF FIRE:

not considered to be a fire or explosion hazard.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUSTIN FOR FIRE FIGHTERS:

Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTIONS:

Appropriate Personal Protective equipment should be worn at all times.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Dike or otherwise contain large spills. Small spills may be controlled using common floor absorbent. Cover the spill with Sodium Carbonate or a soda Ash-slaked lime mixture (50:50). Mix and add water to form slurry. Decant the liquid to te drain with excess water. Treat the solid residue as normal refuse. Wash site with soda ash solution. Always dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Appropriate Personal Protective equipment should be worn at all times. As with all chemicals, wash hands thoroughly after handling. Avoid contact with skin and eyes.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOPATIBILITIES:

Store in a cool dry area in tightly closed conatiners. Open slowly to release pressure. Always properly label containers.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

MATERIAL	SOURCE	TYPE	PPM	MG/M3	NOTATION
Citric Acid	TWA	OSHA	na	na	
	TWA	NIOSH	na	na	
	TWA	ACGIH	na	na	
	TWA	OSHA	na	na	
	TWA	NIOSH	na	na	
	TWA	ACGIH	na	na	

VENTILATION:

General exhaust system recommended.

RESPIRATORY PROTECTION:

Normal room ventilation is adequate.

EYE PROTECTION:

Safety glasses, or goggles required.

SKIN PROTECTION:

Chemical resistant gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE:

Liquid

APPEARANCE:

Clear colorless liquid

ODOR:

Faint odor

PH-VALUE:

<2

MELTING POINT:

NA

FREEZING POINT:

NA

FLASH POINT:

None

EXPLOSION/FLAMMABILITY:

None

SPECIFIC GRAVITY:

1-1.25

DENSITY:

NA

WATER SOLUBILITY:

Complete

VOLATILE ORGANIC CARBON CONTENT:

Flash Point: NA

BOILING POINT:

212 DEGREES F

10. STABILITY AND REACTIVITY:

CHEMICAL STABILITY:

Stable under ordinary condition of use and storage

CONDITIONS TO AVOID:

NA

MATERIAL TO AVOID:

metal nitrates, Alkali carbonates, and bicarbonates, potassium tartrate.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Dioxide and carbon monoxide may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Citric Acid

oral rat LD50: 3 gm/kg; irritation skin: rabbit: 500 mg/24H mild; eye rabbit: 750 ug/25h severe.

Carcinogen

na

12. ECOLOGICAL INFORMATION

ACUTE TOXICITY:

NA FISH

NA AQUATIC INVERTEBRATES

NA ALGAE

NA MICROORGANISMS

MOBILITY:

NONE

PERSISTENCE/DEGRADABILITY:

NONE

BIOACCUMULATION:

NONE

13. DISPOSAL CONSIDERATIONS

MATERIAL DISPOSAL:

Cover the spill with Sodium Carbonate or a Soda ash-slaked lime mixture (50:50). Mix and add water to form slurry. Decant the liquid to the drain with excess water. Treat the solid residue as normal refuse. Always dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION:

US DEPARTMENT OF TRANSPORTATION CLASSIFICATION (49CFR)

IDENTIFICATION NUMBER:

PROPER SHIPPING NAME: Non Regulated Material

CLASS/ DIVISION: none

PACKING GROUP: none

15. REGULATORY INFORMATION:

THIS REGULATORY INFORMATION IS NOT INTENDED TO BE COMPREHENSIVE. OTHER REGULATIONS MAY APPLY TO THIS MATERIAL

NOTIFICATION STATUS:

DSL	yes
INV (CN)	NA
TSCA	YES
EINECS	NA
KECI(KR)	NA
PICCS(PH)	NA

COMPREHENSIVE ENVIRONMENTAL RELEASE, COMPENSATION & LIABILITY ACT (CERCLA)

NO

PRODUCT NAME:	REPORTABLE QUANTITY:
CITRIC ACID SOLUTION	NONE

CLEAN WATER ACT (CWA) SECTION 311

SARA HAZARD CATEGORIES (311/312)

IMMEDIATE (ACUTE): YES.

HEALTH HAZARD. ACUTE: YES CHRONIC: NO FIRE: NO PRESSURE: NO

SARA TOXIC RELEASE INVENTORY (TRI) (313)

NO
NA

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

NONE REPORTED.

PENNSYLVANIA RIGHT-TO-KNOW CHEMICAL LIST

NONE REPORTED

RCRA STATUS:

NA

16. OTHER INFORMATION:

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0



MSDS EFFECTIVE DATE 4/28/2016

MSDS REVISIONS 4/28/2016

MSDS REGULATION

USES AND RESTRICTIONS:

MSDS DISTRIBUTION: THE INFORMATION IN THIS DOCUMENT SHOULD BE MADE AVAILABLE TO ALL WHO MAY HANDLE THE PRODUCT.

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