

**MATERIAL SAFETY DATA SHEET**  
Effective Date: 12/10/03

**Citric Acid 50%**

**1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Citric Acid 50% Manufacturer: G. S. Robins and Company  
126 Chouteau Avenue  
St. Louis, MO 63102  
(314) 621-5155

Chemical Name/Synonyms:

CAS Registry Number: 77-92-9

**EMERGENCY PHONE NUMBER:**  
**CHEMTREC: (800) 424-9300**

**2 COMPOSITION / INFORMATION ON INGREDIENTS OSHA HAZARDS**

Component	CAS Number	% By Weight	OSHA PEL	ACGIH TLV
Citric Acid	77-92-9	50	N/A	N/A
Water	7732-18-5	50	N/A	N/A

**3 HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW:** May be irritating to skin and eyes.

**POTENTIAL HEALTH EFFECTS:**

*Routes of Exposure:* Skin and eye contact.  
*Inhalation:* Not an expected route of exposure.  
*Eye Contact:* This product is irritating to the eyes, resulting in stinging, reddening, tearing, and swelling.  
*Skin Contact:* This product is irritating to the skin resulting in reddening, stinging, and swelling.  
*Ingestion:* Not an expected route of exposure.  
*Cancer:* N/A  
*Target Organs:* N/A  
*Medical Conditions Aggravated*  
*By Exposure:* N/A  
*Subchronic/Chronic*  
*Exposure:* N/A

**4 FIRST AID MEASURES**

*Inhalation:* If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.  
*Eye Contact:* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.  
*Skin Contact:* Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse. Call a physician.  
*Ingestion:* If swallowed, call a physician.

**5 FIRE FIGHTING MEASURES**

*Flash Point:* N/A  
*Extinguishing Media:* Material is not combustible. Use extinguishing media suitable for other combustible materials in the area.  
*Fire Fighting Instructions:* Wear self-contained breathing apparatus and full fire fighting protective gear.  
*Fire & Explosion Hazards:* None known.  
*Decomposition Products:* N/A

**6 ACCIDENTAL RELEASE MEASURES**

*General:* Utilize recommended protective clothing. Spills should be taken up with an appropriate absorbent and placed in approved containers. Spill area can be washed with water. Collect wash water for approved disposal.

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**7 HANDLING AND STORAGE**

*Handling:* Keep containers closed when not in use. Avoid breathing mist and vapors. Avoid contact with eyes and skin. Wash thoroughly after handling.  
*Storage:* Store in a very dry place away from excessive heat. Keep from freezing.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

*Engineering Controls:* Use local exhaust ventilation to maintain air levels below the recommended exposure limits.  
*Personal Protection:* Chemical goggles or faceshield. Rubber or vinyl gloves and long sleeved shirts and pants to minimize skin contact. Employees should wash their hands and face before eating, drinking or using tobacco products. Under normal conditions of use, respiratory protection is not required.  
*Work Practices:* Provide safety shower and eyewash in vicinity. Educate and train employees in the safe use and handling of this product.  
*Unsatisfactory Materials of Construction:* N/A

**9 PHYSICAL AND CHEMICAL PROPERTIES**

*Appearance:* Liquid, clear white to medium yellow.  
*Specific Gravity:* 1.24 @ 60°F  
*Vapor Pressure:* N/A  
*Vapor Density:* N/A  
*Solubility in Water:* N/A  
*Freezing Point:* 14°F  
*% Volatile by Weight:* N/A  
*Boiling Point:* N/A  
*Flash Point:* N/A  
*pH:* N/A

**10 STABILITY AND REACTIVITY**

*Stability:* Stable under normal conditions.  
*Hazardous Polymerization:* May not occur.  
*Conditions to Avoid:* N/A  
*Incompatibility:* N/A  
*Decomposition Products:* N/A

**11 TOXICOLOGICAL INFORMATION**

*On Product:* N/A  
*On Ingredients:* N/A

**12 ECOLOGICAL INFORMATION**

*On Product:* N/A  
*On Ingredients:* N/A

**13 DISPOSAL CONSIDERATIONS**

*Disposal Guidance:* Dispose of in accordance with federal, state and local regulations.  
*Other Information:*

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**14 TRANSPORTATION INFORMATION**

**DOT Hazardous Materials Classification:**

Class/Division:

Proper Shipping Name: Not Regulated

Label:

Packing Group:

ID Number:

**15 REGULATORY INFORMATION**

TSCA: N/A

RCRA: N/A

CERCLA: N/A

SARA TITLE III: N/A

OSHA Hazcom Status: N/A

IARC: N/A

NTP Annual Report

on Carcinogens: N/A

OSHA Carcinogen: N/A

**16 OTHER INFORMATION**

*This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which contains information from sources outside of our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.*