

MATERIAL SAFETY DATA SHEET

CITRIC ACID

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SECTION I: PRODUCT INFORMATION

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TRADE NAME: Citric Acid
SUPPLIER/MANUFACTURER: Chemical Specialties Mfg Corp, 200 Confederation Pkwy, Concord ON, L4K 4T8, (416) 421-5212
PREPARATION DATE: January 11, 2011
PRODUCT USE:
PRODUCT IDENTITY: Compound

CLASS E

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SECTION II: HAZARDOUS INGREDIENTS

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CHEMICAL IDENTITY: Citric Acid CAS# / NA# / UN#: 77-92-9 CONC. (W/W): 60 - 100%
OSHA PEL, ACGIH TLV: Not Available
TOXICITY LD50 LC50: Not Available

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SECTION III: PHYSICAL DATA

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PHYSICAL STATE: Free flowing white crystals - Odourless
ODOR THRESHOLD: Not determined SPECIFIC GRAVITY: 1.662 g/cc
VAPOR PRESSURE: Not determined VAPOR DENSITY: Not available
EVAPORATION RATE: Not determined BOILING POINT: N.A.V.
FREEZING POINT: Not applicable pH: Not applicable
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not determined WATER SOLUBILITY: 100%

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SECTION IV: FIRE AND EXPLOSION DATA

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CONDITIONS OF FLAMMABILITY: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source
MEANS OF EXTINGUISHMENT: Water spray, dry chemical, alcohol foam or carbon dioxide.
FLASHPOINT & METHOD OF DETERMINATION: N.A.V.
UPPER FLAMMABLE LIMIT: Not applicable
LOWER FLAMMABLE LIMIT: Not applicable
AUTO-IGNITION TEMPERATURE: Not applicable
HAZARDOUS COMBUSTION PRODUCTS: CO and CO2 may form
EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT: Not determined
EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE: Not determined

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SECTION V: REACTIVITY DATA

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CONDITION UNDER WHICH THE PRODUCT IS CHEMICALLY UNSTABLE: Heat, flames, ignition sources and incompatible chemicals.
NAME OF ANY SUBSTANCE OR CLASS OF SUBSTANCE WITH WHICH THE PRODUCT IS INCOMPATIBLE: Metal nitrates, alkali carbonates and bicarbonates, potassium tartrate. Will corrode copper, zinc, aluminum and their alloys
CONDITIONS OF REACTIVITY: See above.
HAZARDOUS DECOMPOSITION PRODUCTS: CO and CO2 may form when heated to decomposition.

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SECTION VI: TOXICOLOGICAL PROPERTIES

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ROUTE OF ENTRY:

SKIN CONTACT: Irritant SKIN ABSORPTION: Not known
EYE CONTACT: May cause irritation redness and pain. INHALATION: Strong irritant
INGESTION: May cause gastrointestinal irritation
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Refer to route of entry.
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: N.A.V.
EXPOSURE LIMITS: Not determined
IRRITANCY OF PRODUCT: Severe
SENSITIZATION TO PRODUCT: Not determined
CARCINOGENICITY: Not known
REPRODUCTIVE TOXICITY: Not known
TERATOGENICITY: Not known
MUTAGENICITY: Not known
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: Not known

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**SECTION VII: PREVENTATIVE MEASURES**

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PERSONAL PROTECTIVE EQUIPMENT: Goggles, gloves should be worn.  
ENGINEERING CONTROLS: Good industrial hygiene for ventilation and isolation of work area.  
PROCEDURES TO BE FOLLOWED IN CASE OF A LEAK OR SPILL: Shovel up spilled material and dispose in accordance with local regulations.  
WASTE DISPOSAL: In accordance with Provincial and Federal regulations.  
HANDLING PROCEDURES AND EQUIPMENT: Protective clothing and equipment should be used.  
STORAGE REQUIREMENTS: Store in dry area.  
SPECIAL SHIPPING INFORMATION: Not Regulated

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**SECTION VIII: FIRST AID MEASURES**

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EYES: Remove contact lenses. Flush with water for at least 15 minutes. If irritation persists, consult physician.  
INGESTION: Drink 1 to 2 glasses of water. If discomfort persists, consult physician  
INHALED: Remove to fresh air. If symptoms persist or are severe seek prompt medical assistance.  
SKIN: Remove contaminated clothing. Thoroughly wash exposed area with soap and water.  
PHYSICIAN Treatment based on judgment of attending physician.

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**SECTION IX: PREPARATION INFORMATION**

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PREPARED BY: E. Vismantas (416) 421-5212  
**24 HOUR EMERGENCY NUMBER: CANUTEC 1-613-996-6666**

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**SPECIAL PRECAUTIONS**

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One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human - system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

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**DISCLAIMER OF LIABILITY**

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim all expressed or implied warranties of merchantability or of liability from the use of this product. the information contained herein, as of this date, is believed to be true and accurate, but it is the user's obligation to study the MSDS and determine the conditions for the safe use of this product.

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