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MATERIAL SAFETY DATA SHEET

REPLACES:

NEW

WRITTEN BY: J. Vernicw

DATE: 23-Apr-07 **SIGNATURE**



1. IDENTIFICATION OF THE MATERIAL AND THE PRODUCER

COMMERCIAL NAME: Chlorine Dioxide Spray Gel Activator

CHEMICAL NAME: Citric Acid, 50% solution (77-92-9)
(CAS No:)

TELEPHONE: (631) 273-0900

CONTACT: J. Vernice

2. COMPOSITION / INFORMATION OF THE INGREDIENTS

HAZARDOUS MATERIALS: Citric Acid (50%)

3. IDENTIFICATION OF THE DANGERS

INHALATION Breathing of vapor or mist is possible

SKIN: Can cause acid burns and/or irritation

EYES: Can cause acid burns and/or irritation

INTAKE: Swallowing large amounts may be hazardous

4. FIRST AID MEASURES

INHALATION: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

EYES: If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

INTAKE: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

BURNS: Consult medical personnel immediately.

5. MEASURES IN CASE OF FIRE

EXTINGUISHING MEDIA:

WATER: X

FOAM: X

CO2: X

DRY CHEMICAL: X

UNUSUAL HAZARDS: None

SPECIAL PROCEDURES: Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective

LEL: None

UEL: None

6. MEASURES IN CASE OF ACCIDENTAL LEAK

SPILL PROCEDURES: Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

7. HANDLING AND STOCKING

HANDLING PROCEDURES: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

INCOMPATIBILITY: Not determined

8. CONTROL TO EXPOSURE / INDIVIDUAL PROTECTION

VENTILATION: Use mechanical ventilation and/or NIOSH approved respirator when misting is likely.

RESPIRATORY PROTECTION: If overexposure has been determined or documented, a NIOSH/MSHA approved dust/mist and fume respirator is advised in the absence of proper environmental control (see your safety equipment supplier)

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses.

GLOVES: Protect skin with neoprene, nitrile rubber, polyvinyl chloride gloves.

OTHER PROTECTION:

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid

pH: <1

COLOR: Colorless

ODOR: Slight acrid

CHANGE IN PHYSICAL STATE: May crystallize at cold temp

VISCOSITY: Viscous

SOLUBILITY: Sol in water

DENSITY: 1.24 gm/cc

BULK DENSITY: 10.34 lbs/gal

FLASH POINT: None

IGNITION: None

EXPLOSION LIMITS: NE

VAPOR PRESSURE: 21mmHg @ 77.00 F

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Strong Alkalies

INCOMPATIBILITY: Not determined

HAZARDOUS DECOMPOSITION PRODUCT Cox

HAZARDOUS POLYMERIZATION: WILL OCCUR: WILL NOT OCCUR: X

11. TOXICOLOGICAL INFORMATION

TLV: ND

PEL: NE

EFFECTS OF OVEREXPOSURE: Not determined

TOXICITY: Non toxic

CARCINOGEN STATUS: Not a carcinogen

12. ECOLOGICAL INFORMATION

DEGRADATION: Not determined

AQUATIC TOXICITY: Not determined

13. CONSIDERATION ON DISPOSAL

DISPOSAL PROCEDURES: Consult local authorities.

14. TRANSPORT INFORMATION

GGVSee/IMDG CODE::

UN No: 3265

GGVE/GGVS:

ICAO/IATA-DGR:

RID/ADR:

ADNR:

DOT CLASSIFICATION: Class 8, Corrosive

HAZARDOUS MATERIAL ID: Citric Acid 50%

15. INFORMATION ON CURRENT REGULATIONS

HAZARD SYMBOL: CORROSIVE

R-PHRASES:

S-PHRASES:

HMIS RATING:	Health:	1	HMIS RATINGS:	
	Flammability:	1	0 - MINIMAL	3 - SERIOUS
	Reactivity:	0	1 - SLIGHT	4 - SEVERE
			2 - MODERATE	

16. OTHER INFORMATION

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LEGEND:

ND - NOT DETERMINED
NA - NOT APPLICABLE