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CHEM ONE CORPORATION -- CITRIC ACID, ANHYDROUS -- 6810-00-141-2942

Product ID:CITRIC ACID, ANHYDROUS

MSDS Date:04/28/1999

FSC:6810

NIIN:00-141-2942

Status Code:A

MSDS Number: CJSCV === Responsible Party ===

Company Name: CHEM ONE CORPORATION Address: 8017 PINEMONT DRIVE, SUITE 100

Box:UNK

City:HOUSTON

State:TX

ZIP:77040-6519

Country:US

Info Phone Num:713-896-9966/FAX

:713-8967540

Emergency Phone Num:713-896-9966 Chemtrec Ind/Phone:(800)424-9300

CAGE:TO395

=== Contractor Identification ===

Company Name: CHEM ONE CORPORATION Address: 8017 PINEMONT DRIVE, SUITE 100

Box:UNK

City:HOUSTON

State:TX

ZIP:77040-6519 Country:US

Phone:713-896-9966/FAX:713-8967540

CAGE:TO395

Company Name: E-BESAN Address: 117 FOCIS, SUITE 214

Box:9237 City:METAIRIE

State:LA ZIP:70055 Country:US

Phone:504-908-1222

Contract Num:SP0450-99-M-NE34

CAGE:1EAB6

====== Composition/Information

on Ingredients =======

Ingred Name:CITRIC ACID CAS:77-92-9 RTECS #:GE7350000 > Wt:99.

========= Hazards Identification ================

LD50 LC50 Mixture:ORAL LD50(RAT): 3 GM/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES-DUSTS & SOLUTION MAY CAUSE SEVERE IRRITATION TO EYES. CONCENTRATED SOLUTIONS MAY BE CORROSIVE TO EYES & CAUSE CORNEAL ULCERATION. SKI

N-THIS PRODUCTION MAY CAUSE MODERATE

IRRITATION OF SKIN. CITRI C ACID MAY CAUSE ALLERGIC CONTACT DERMATITIS WITH PROLONGED OR REPEATED CONTACT. INGESTION-CITRIC ACID MAY CAUSE GASTROINTESTIONAL IRRITATION. CONCENTRATED SOLUTIONS MAY CAUSE NEUROTIC & ULCERATIVE LE SIONS ON ORAL MUCOUS MEMBRANES. CHRONIC INGESTION OF HIGH CONCENTRATION CITRIC ACID CAN RESULT IN ERROSION OF TOOTH ENAMEL. INHILATION-DUST/MIST FROM SOLUTION MAY CAUSE MILD TO MODERATE IRRITATION OF NOSE &

THROAT.

Explanation of Carcinogenicity: NONE OF THIS PRODUCT'S COMPONENTS ARE LISTED BY ACGIH, IARC, NIOSH OR NTP.

Effects of Overexposure:EYES: REDNESS,TEARING AND PAIN. SKIN: ALLERGIC CONTACT DERMATITIS. INGESTION: NAUSEA, DIARRHEA, VOMITING, ADOMINAL PAIN. CONCENTRATED SOLUTIONS MAY CAUSE ULCERATIVE LESIONS ON ORAL MUCOUS MEMBRANE. C HRONIC INGESTION OF HIGH CONCENTRATIONS CITRIC ACID CAN RESULT IN ERROSION OF TOOTH ENAMEL. INHILATION: COUGHING, SNEEZING AND LABORED BR EATHING.

First Aid:EYE:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINS. GET MEDICAL ATTENTION IF SYMPTOMS OF PAIN,SWELLING,OR TEARING EXIST AFTER FLUSHING. SKIN:IMMEDIATELY WASH THOROUGHLY WITH SOAP & WATER.GET MEDIC AL ATTENTION OF IRRITATION DEVELOPS OR PERSISTS. INGESTION:HAVE VICTIM RINSE MOUTH WITH WATER, IF CONSCIOUS. NEVER GIVE ANYTHING BY MOUTH TO A VICTIM WHO IS UNCONSCIOUS OR HAVING CONVUL

SIONS. CONTACT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. INHILATION:MOVE VICTIM TO FRESH AIR, APPLY ARTIFICIAL RESPIRATION IF NOT BREATHING. IF COUGH OR DIFFICULTY BREATHING DEVELOPS, SEEK MEDICAL ATTENTION.
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Flash Point:=100.C, 212.F Autoignition Temp:=1010.C, 1850.F

Lower Limits:0.28-2.3KG/M

Extinguishing Media:WATER, FOAM, DRY CHEMICAL, CARBON DIOXIDE

Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR FULL

PROTECTIVE

CLOTHING INCLUDING A SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard: SLIGHT FIRE POTENTIAL WHEN HEATED. CITRIC ACID POSES A SERIOUS DUST EXPLOSION HAZARD. COMBUSTIBLE IN LIQUID FORM.

	Accidental Release Measures	
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- Spill Release Procedures: STOP FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. CONTAIN THE DISCHARGED MATERIAL. IF SWEEPING OF A CONTAMINATED AREA IS NECESSARY USE A DUST SUPPRESSANT WHICH DOES **NOT R**
- EACT WITH PRODUCT. WEAR APPROPIA TE PROTECTIVE EQUIPMENT & CLOTHING DURING CLEAN-UP. ADD LIME, SHOVEL MATERIAL INTO WASTE CONTAINER. WASH THE AREA AFTER A SPILL OR LEAK CLEAN-UP. Neutralizing Agent:LIME

============= Handling and Storage ==========================

- Handling and Storage Precautions: ALL EMPLOYEES WHO HANDLE THIS MATERIAL SHOULD BE TRAINED TO HANDLE IT SAFELY. DO NOT BREATHE DUST. AVOID ALL CONTACT WITH SKIN AND EYES.USE THIS PRODUCT ONLY WITH ADEQUATE VEN
- TILATION.WASH THOROUGHLY AF TER HANDLING.AVOID ACCUMULATION OF DUST WHICH CAN LEAD TO A SERIOUS HAZARD OF DUST EXPLOSION.
- Other Precautions: KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.STORE CONTAINERS IN COOL, DRY LOCATION, AWAY FROM DIRECT SUNLIGHT, SOURCES OF INTENSE HEAT, OR WHERE FREEZING IS POSSIBLE. MATERIAL SHOULD BE STORED IN SECONDA RY CONTAINERS OR IN A DIKED AREA.STORAGE AREA SHOULD BE MADE OF FIRE-RESISTANT MATERIALS.POST "NO SM OKING" SIGNS.

====== Expo

- Respiratory Protection: NONE REQUIRED WHERE ADEQUATE CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE RESPIRATOR DUST MASK.
- Ventilation:MECHANICAL VENTILATION SUCH AS DILLUTION & LOCAL EXHAUST.USE CORROSION-RESISTANT VENTILATION SYSTEM & EXHAUST TO OUTSIDE;DUST COLLECTOR &EXPLOSION VENTS.
- Protective Gloves:IMPERVIOUS(BUTYL OR NATURAL RUBBER, NEOPRENE, NITRILE RUBBER, POLYETHYLENE, PVC)
- Eye Protection: SAFETY G
- LASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES FOR SOLUTIONS=FACESHIELDS
- Other Protective Equipment: EYE WASH FOUNTAIN AND SAFETY SHOWER IN WORK AREA.
- Work Hygienic Practices:USE GOOD HYGIENE PRACTICES WHEN HANDLING THIS MATERIAL INCLUDING CHANGING AND LAUNDERING CLOTHING AFTER USE.WASH HANDS THOROUGHLY AFTER HANDLING MATERIAL.DO NOT EAT,DRINK,OR SMOKE IN WORK AREAS.

Supplemental Safety and Health

- FIRST AID: NOTE TO PHYSICIAN: THERE IS NO SPECIFIC ANTIDOTE. CARE IS SYMPTOMAT
- IC AND SUPPORTIVE. SPECIAL PROCEDURES: REMOVE SOILED CLOTHING AND LAUNDER BEFORE RESUE. AVOID ALL SKIN CONTACT WITH THE SP ILLED MATERIAL. HAVE EMERGENCY EQUIPMENT READILY AVAILABLE.

=======================================	Physical/Chemical Propert	ies =========
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HCC:C3

Boiling Pt:B.P. Text:DECOMPOSES Melt/Freeze Pt:=153.C, 307.4F Spec Gravity:1.665@20C

pH:1.8(5%SOLUTION)

Solubility in Water:162G/100ML H20@25C

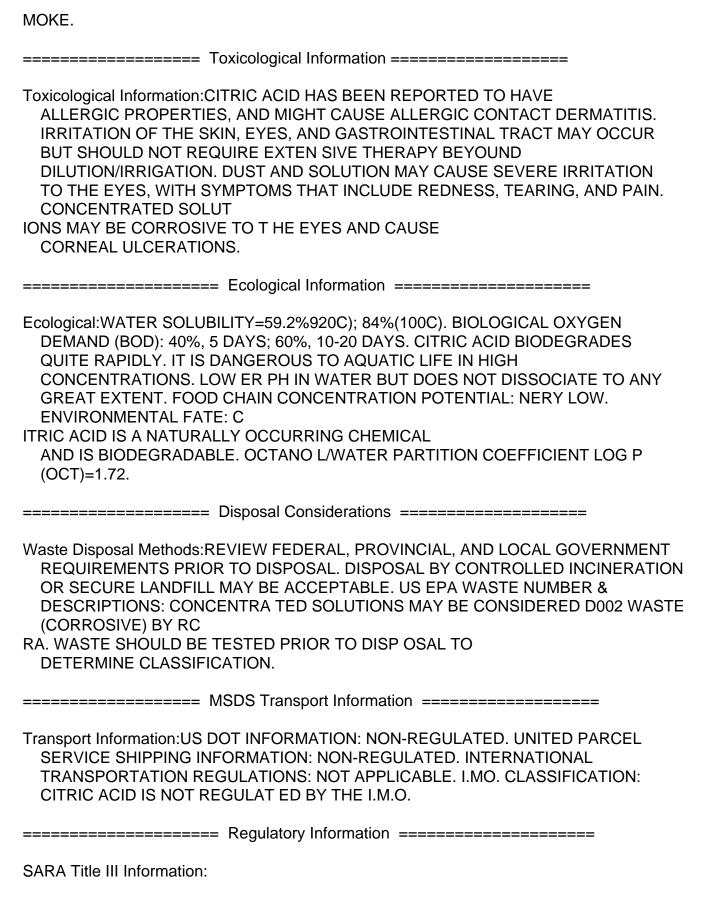
Appearance and Odor:SOLID,ODORLESS,COLORLESS POWDER

Percent Volatiles by Volume:0@21C

Stability Indicator/Materials to Avoid:YES

METAL NITRATES, STRONG BASES AND OXIDIZERS; REDUCING AGENTS. WHEN WET A CORROSIVE TO BRASS, COPPER, ZINC, ALUMINUM AND THEIR ALLOYS, LEAD CAST IRON AND STEEL (NOT STAINLESS STEEL)

Stability Condition to Avoid:HEAT,MOISTURE AND INCOMPATABLE MATERIALS
Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON
MONOXIDE.INCOMPLETE COMBUSTION MAY PRODUCE IRRITATING FUMES AND
ACRID S



NONE OF THIS PRODUCTS COMPONENTS ARE LISTED

UNDER SARA SECTION 302, SARA SECTION 313, OR CERCLA. SARA 302:
THERE ARE NO SPECIFIC THRESHOLD PLANNING QUANTITIES FOR CITRIC
ACID. THE DEFAULT FEDERAL MSDS SUBMISSION AND INVENTORY
REQUIREMENTS FILING THRESHOLD OF 10,000 LBS THEREFORE APPLIES, PER
40 CFR 370.20.

Federal Regulatory Information:CITRIC ACID IS LISTED BY TSCA, DSL, AND EINECS.

State Regulatory Information:NONE OF THIS PRODUCTS COMPOENETS ARE LISTED ON THE STAT

E LISTS FROM CA, FL, MA, MN, NJ OR PA.

======= Ot	ther Information		
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