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PHOENIX INDUSTRIES INC -- CITRIC ACID, ANHYDROUS, TECHNICAL -- 6810-01-359-5011

Product ID:CITRIC ACID, ANHYDROUS, TECHNICAL

MSDS Date:02/15/1998

FSC:6810

NIIN:01-359-5011

MSDS Number: CJSQV === Responsible Party ===

Company Name: PHOENIX INDUSTRIES INC Address: 11028 LEADBETTER RD UNIT 10

City: ASHLAND

State:VA ZIP:23005 Country:US

Info Phone Num:804-264-5183

Em

ergency Phone Num:201-944-6020 Resp. Party Other MSDS Num::0466 Chemtrec Ind/Phone:(800)424-9300

CAGE:0YED2

=== Contractor Identification ===

Company Name: PHOENIX INDUSTRIES INC Address: 1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA ZIP:23222 Country:US

Phone:804-264-5183/FAX: 264-5535 Contract Num:SP0450-00-M-D598

CAGE:0YED2

Company Name: PHOENIX INDUSTRIES INC Address: 1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA ZIP:23222 Country:US

Phone:804-264-5183/FAX: 264-5535

Contract Num:SP

0450-99-M-NJ77 CAGE:0YED2

======= Composition/Information on Ingredients ========

Ingred Name:CITRIC ACID CAS:77-92-9
RTECS #:GE7350000
= Wt:100.

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 ORAL,RAT: 3GM/KG

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

Health Hazards Acute and Chronic:EYE:CONTACT MAY CAUSE SEVERE IRRITATION, POSSIB

LE EYE BURNS. SKIN: MAY CAUSE IRRITATION.

INGESTION:MAY CAUSE GASTROINTESTINAL IRRITATION. CITRIC ACID DECREASES IRON & CALCIUM ABSORPTION. INHALATION: DU ST IRRITATING TO RESPIRATORY TRACT. CHRONIC:REPEATED EXPOSURE MAY CAUSE EROSION OF TEETH. TARGET ORGANS: NONE.

Explanation of Carcinogenicity: NOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA.

Effects of Overexposure:EYES: SEVERE IRRITATION, BURNS. SKIN: IRRITATION. INGESTION: GASTROINTESTINAL IRRITATION., NAUSEA, VOMIT

ING, DIARRHEA. INHALATION: REESPIRATORY IRRITATION.

Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY RESPONSIBLE PARTY.

First Aid:EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES., OCCASIONALLY LIFTING LIDS. GET MEDICAL AID IMMEDIATELY. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF SOAP & WATER FOR AT LEAST 15 MINUT ES WHILE REMOVING CLOTHES & SHOES. GET MEDICAL AID IF IRRITATION DEVELO

PS OR PERSISTS. INGESTION: IF VICTIM IS CONSCIOUS & ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. GET MEDICAL AID. INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL AID IF COUGH OR OTHER SYMPTOMS APPEAR. NOTE TO PHYSICIANS: TREA T SYMPTOMATICALLY & SUPPORTIVELY.

Flash Point:NOT AVAILABLE Autoignition Temp:A

utoignition Temp Text:N/AV Extinguishing Media: FOR SMALL FIRES, USE WATER SPRAY, DRY CHEMICALS, CARBON DIOXIDE OR CHEMICAL FOAM. Fire Fighting Procedures: AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR. DUSTS AT SUFFICIENT CONCENTRATIONS CAN FORM EXPLOSIVE MIXTU RES WITH AIR. Unusual Fire/Explosion Hazard: NO DATA PROVIDED BY RESPONSIBLE PARTY. ======= Accidental Release Measur Spill Release Procedures: USE PROPER PERSONAL PROTECTIVE EQUIPMENT. VACUUM OR SWEEP UP MATERIAL & PLACE INTO A SUITABLE DISPOSAL CONTAINER. AVOID GENERATING DUSTY CONDITIONS. Neutralizing Agent: NO DATA PROVIDED BY RESPONSIBLE PARTY. ============ Handling and Storage =========================== Handling and Storage Precautions: WASH THORUOGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. MINIMIZE DUST GENERATION & ACCUMULATION. AVOID CONTACT WITH SK IN AND EYES. AVOID INGESTION & INHALATION. Other Precautions: KEEP FROM CONTACT W/OXIDIZING MATERIALS. STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29CFR 1910.134. ALWAYS US A NIOSH-APPROVED RESPIRATOR WHEN NECESSARY. Ventilation: USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS. Protective Gloves:WEAR APPROPRIATE GLOVES TO PREVENT SKIN EXPOSURE. Eve Protection:WEAR EYEYGLASSES OR CHEM SAFTY GOGG AS DESCRIBED IN OSHA 29CFR1910.133. Other Protective Equipment: WEAR APPROPRIATE PROTECTIVE CLOTHING TO MINIMIZE CONTACT WITH SKIN.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

========= Physical/Chemical Properties ===========

Supplemental Safety and Health

HCC:N

N/AV=NOT AVAILABLE. N/A=NOT APPLICABLE.

1 Boiling Pt:B.P. Text:DECOMPOSES > MELTING PT Melt/Freeze Pt:=67.2C, 153.F Decomp Temp:Decomp Text:NOT AVAILABLE Spec Gravity: 1.665 Solubility in Water:> THAN 50 WT % IN WATER. Appearance and Odor:SOLID;WHITE FREE-FLOWING GRANULAR POWDER, ODORLESS. ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, METALLIC NITRATES. Stability Condition to Avoid:STRONG OXIDANTS. Hazardous Decomposition Products: CARBON MONOXIDE, CARBO N DIOXIDE. Conditions to Avoid Polymerization: HAS NOT BEEN REPORTED. ======== Toxicological Information ============ Toxicological Information: EPIDEMIOLOGY/TERATOGENICITY/REPRODUCTIVE EFFECTS/NEUROTOXICITY/MUTAGENICITY/OTHER STUDIES: NOT AVAILABLE. LD50/LC50: CAS# 77-92-9: ORAL, MOUSE: LD50=5040 MG/KG; ORAL, RAT: LD50= 3 GM/KG. CARCINOGENIC ITY: CITRIC ACD-NOT LISTED BY ACGIH, OSHA, NTP, IARC. ======= Ecological Information ========== Ecological: ENVIONMENTAL FATE: THIS CHEMICAL IS EXPECTED TO BE READILY BIODEGRADABLE AND IS NAOT LIKELY TO BIOCONCENTRATE. PHYSICAL/CHEMICAL: NOT AVAILABLE. OTHER: NOT AVAILABLE. ======= Disposal Considerations ============ Waste Disposal Methods: DISPOSE OF IN A MANNER CONSISTENTY WITH FEDERAL, STATE & LOCAL REGULATIONS. RCRA D-SERIES MAXIMUM CONCENTRATIONOF CONTAMINANTS: NOT LISTED. RCRA D-SERIES CHRONIC TOXICITY REFERENCE LEVELS: NOT LISTED. R CRA F-SERIES: NOT LISTED. RCRA P-SERIES: NOT LISTED. RCRA U-SERIES: NOT LISTED. NOT LISTED AS A MA TERIAL BANNED FROM LAND DISPOSAL ACCORDING TO EPA. ======== MSDS Transport Information ===========

Transport Information:US DOT/IMO/ICAO:NOT REGULATED AS HAZARDOUS MATERIAL.

======== Regulatory Information ===========

SARA Title III Information:NO DATA PROVIDED BY RESPONSIBLE PARTY. Federal Regulatory Information:RCRA D-SERIES MAXIMUM CO

## **NCENTRATIONOF**

CONTAMINANTS: NOT LISTED. RCRA D-SERIES CHRONIC TOXICITY REFERENCE LEVELS: NOT LISTED. RCRA F-SERIES: NOT LISTED. RCRA P-SERIES: NOT LISTED. RCRA U-SERIES: NOT LI STED. NOT LISTED AS A MATERIAL BANNED FROM LAND DISPOSAL ACCORDING TO EPA.

State Regulatory Information: NO DATA PROVIDED BY RESPONSIBLE PARTY.

=========== Other Information ===================

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