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AQUA-CHEM INC, WATER TECHNOLOGIES DIV -- CITRIC ACID GRANULAR CLEANING AGENT -- 6810-01-359-5011

Product ID:CITRIC ACID GRANULAR CLEANING AGENT MSDS Date:09/26/1988 FSC:6810 NIIN:01-359-5011 **MSDS Number: BRRLX** === Responsible Party === Company Name: AQUA-CHEM INC, WATER TECHNOLOGIES DIV Address:210 W CAPITOL DR Box:421 City:MILWAUKEE State:WI ZIP:53201 Country:US Info Phone Num:414-259-0600, 414-962-0100 Emergency Phone Num:202-483-7616,800-424-9300(CHEMTREC) CAGE:09647 === Contractor Identification === Company Name: AQUA-CHEM INC, WATER TECHNOLOGIES DIV Box:421 City:MILWAUKEE State:WI

ZIP:53201 Country:US Phone:202-483-7616,800-424-9300(CHEMTREC) CAGE:09647

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

Ingred Name:CITRIC ACID, ANHYDROUS CAS:5949-29-1 Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3 RESP. DUST ACGIH TLV:10 MG/M LD50 LC50 Mixture:LD50 (ORAL RAT) IS UNKNOWN. Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: EYES: IRRITATION. SKIN: IRRITATION. INHALATION: DUST MAY CAUSE RESPIRATORY TRACT IRRITATION. ORAL: MAY CAUSE GASTROINTESTIONAL IRRITATION, NAUSEA, OR DIARRHEA. Effects of Overexposure: EYES: IRRITATION. SKIN: IRRITATION. **INHALATION** OF DUST MAY CAUSE RESPIRATORY TRACT IRRITATION. INGESTION: GASTROINTESTINAL IRRITATION, NAUSEA, DIARRHEA. Medical Cond Aggravated by Exposure:NONE KNOWN. First Aid: EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AREA WITH SOAP AND WATER. INHALATION: MOVE TO FRESH AIR. INGESTION: DO NOT INDUCE VOMITING. GIVE TWO GLASSE S OF WATER. GET MEDICAL ATTENTION. Extinguishing Media:WATER, CARBON DIOXIDE, FOAM. Fire Fighting Procedures: RESPIRATORY PROTECTION IS REQUIRED WHEN FIGHTING FIRE. Unusual Fire/Explosion Hazard: PRODUCT IS NOT FLAMMABLE BUT WILL DECOMPOSE IN FIRE. DECOMPOSITION PRODUCTS MAY BE TOXIC. Spill Release Procedures: SWEEP UP DRY SPILL. DO NOT GENERATE DU ST. COLLECT IN CONTAINER FOR DISPOSAL. CONTAIN WET SPILL. DILUTE FURTHER WITH WATER. NEUTRALIZE WITH SUITABLE ALKALINE MATERIAL SUCH AS LIME OR DILUTE CAUSTIC (20 % OR LESS). FLUSH TO SANITARY SEWER. Neutralizing Agent:LIME OR DILUTE CAUSTIC (20% OR LESS). Handling and Storage Precautions: STORE IN TIGHTLY CLOSED CONTAINERS

AWAY FROM WATER AND INCOMPATIBLE MATERIALS. AVOID FREEZING AND HIGH TEMPERATURES.

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her Precautions: AVOID EYE CONTACT AND PROLONGED SKIN EXPOSURE. DO NOT GENERATE OR BREATH DUST. DO NOT TASTE OR SWALLOW.

Respiratory Protection:NONE NORMALLY REQUIRED. WHERE EXPOSURE TO PRODUCT DUST IS APPARENT, WEAR A NIOSH-APPROVED DUST/MIST RESPIRATOR. FOR EMERGENCIES, A SELF-CONTAINED BREATHING APPARATUS MAY BE NECESSARY.
Ventilation:NORMAL VENTILATION USUALLY ADEQUATE.
Protective Gloves:RUBBER GLOVES RECOMME NDED.
Eye Protection:FACE SHIELD OR SAFETY GOGGLES REQUIRED.
Other Protective Equipment:WEAR A SAFETY APRON.
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

HCC:C2 Boiling Pt:B.P. Text:DECOMPOSES Melt/Freeze Pt:=152.8C, 307.F Spec Gravity:1.542 pH:2 Solubility in Water:592 G/L @ 25C Appearance and Odor:FINE, WHI TE GRANULAR CRYSTALS. ODORLESS.

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, ALKALINE CHEMICALS.
Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.
Hazardous Decomposition Products:MAY FORM CARBON MONOXIDE AND CARBON DIOXIDE IN THE PRESENCE OF HEAT.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

Waste Disposal Methods:SEWER, BURY OR INCINERATE IN APPROVED SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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