

ADM CORN SWEETENERS -- CITRIC ACID,ANHYDROUS,USP/FCC -- 6810-01-359-5011

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Product Identification  
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Product ID:CITRIC ACID,ANHYDROUS,USP/FCC

MSDS Date:07/27/1995

FSC:6810

NIIN:01-359-5011

MSDS Number: CFZCD

=== Responsible Party ===

Company Name:ADM CORN SWEETENERS

Address:4666 FARIES PARKWAY

City:DECATUR

State:IL

ZIP:62525

Country:US

Info Phone Num:217-424-5608/7418

Emergency Phone Num:9

10-457-5011

CAGE:84168

=== Contractor Identification ===

Company Name:ARCHER DANIELS MIDLAND CO

Address:4666 E FARIES PKWY

Box:1470

City:DECATUR

State:IL

ZIP:62526-5666

Country:US

Phone:217-424-5200/7418

CAGE:84168

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

CAGE:0YED2

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Composition/Information on Ingredients  
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Ingred Name:CITRIC ACID

CAS:77-92-9

RTECS #:GE735000

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Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) 11,700 MG/KG  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY  
& GI TRACTS. ACUTE- EYES:MAY CAUSE IRRITATION. SKIN:PROLONGED  
CONTACT MAY CAUSE IRRITATION. INHALE:MAY CAUSE MUCOUS MEMBRANES  
IRRITATION, SHORTNESS OF BREATH, COUGHING. ORAL:MAY CAUSE  
GASTROINTESTINAL TRACT IRRITATION. CHRONIC- UNKNOWN.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION, NAUSEA, SHORTNESS OF BREATH,  
COUGHING, REDNESS OF EYES AND SKIN

===== First Aid Measures =====

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:MOVE TO FRESH  
AIR. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS  
OPEN. SKIN:WASH WITH PLENTY OF WATER. ORAL:GET MEDICAL  
ATTENTION.

===== Fire Fighting Measures =====

Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:1832F  
Lower Limits:8 G/CUFT  
Upper Limits:65 G/CUFT  
Extinguishing Media:USE WATER SPRAY, CARBON DIOXIDE, FOAM, HALON/DRY  
CHEMICAL. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.  
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED  
SELF-CONTAINED BREATHING APPARATUS IN CONFINED AREAS.  
Unusual Fire/Explosion Hazard:AS WITH ANY FINELY DIV  
IDED ORGANIC SOLID,  
DUST MAY BE EXPLOSIVE IF MIXED WITH AIR IN CRITICAL PROPORTIONS AND  
IN THE PRESENCE OF AN IGNITION SOURCE.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. RECOVER IF  
POSSIBLE. SWEEP OR VACUUM INTO CLOSED CONTAINERS FOR DISPOSAL.  
AVOID DUST GENERATION. WASH SPILL SITE WITH WATER AFTER PICKUP IS  
COMPLETE.

Neutralizing Agent:SODA ASH OR SODIUM BICARBONATE

===== Handli

ng and Storage =====

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINER IN DRY PLACE AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions:USE WITH ADEQUATE VENTILATION. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT GENERATE DUST. DO NOT BREATHE DUST. KEEP OUT OF REACH OF CHILDREN. WASH THOROUGHLY AFTER HANDLING. DO NOT REUSE CONTAINER UNLESS THOROUGHLY CLEANED.

===== Exposure Controls/Personal Protection =====

Respirator

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED DUST RESPIRATOR MUST BE WORN. A PROGRAM SHOULD BE INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134.

Ventilation:GOOD GENERAL VENTILATION IS SUFFICIENT FOR MOST CONDITIONS (10 ROOM VOLUMES PER HOUR).

Protective Gloves:RUBBER, PVC

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS/GOGGLES

Other Protective Equipment:EYE BATH, WASHING FACILITIES, SAFETY SHOWER

AND IMPERVIOUS CLOTHING

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Melt/Freeze Pt:M.P/F.P Text:307F,153C

Spec Gravity:1.665

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:>50%

Appearance and Odor:W

WHITE POWDER OR GRANULES - ODORLESS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, METAL NITRATES

Stability Condition to Avoid:EXCESSIVE HEAT, MOISTURE

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OTHER UNIDENTIFIED COMPOUNDS MAY BE FORMED.

===== Disposal Considerations =====

Waste Disposal Methods:DISCHARGE, TREATMENT OR DISPOSAL MAY BE SUBJECT

TO LOCAL, STATE AND FEDERAL REGULATIONS. NEUTRALIZE AND FLUSH TO DRAIN WITH WATER, IF PERMITTED.

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