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ADM CORN SWEETENERS -- CARBON DIOXIDE, REFRIGERATED LIQUID -- 4210-00-270-4512

Product ID:CARBON DIOXIDE, REFRIGERATED LIQUID

MSDS Date:02/02/1991

FSC:4210

NIIN:00-270-4512

MSDS Number: BHHHQ === 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

Emergency Phone Num:217-424-5200

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: GENERAL FIRE EXTINGUISHER CORP

Address:1685 SHERMER RD Box:City:NORTHBROOK

State:IL

ZIP:60062-5315 Country:US

Phone: (708) 847-272-7500; 847-272-7500

CAGE:99539

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

Ingred Name: CARBON DIOXIDE

CAS:124

-38-9

RTECS #:FF6400000 Fraction by Wt: 99.9% OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;93

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

LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.

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

Health Hazards Acute and Chronic:ACUTE: INCREASED REPIRATION; HEADACHE; NAUSEA, VOMITING, COMA, DEATH DUE TO LACK OF OXYGEN; FROSTBITE OR

FREEZE BURNS. CHRONIC: NO DATA

AVAILABLE

Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.

Effects of Overexposure:INCREASED BREATHING RATE, HEADACHE, NAUSEA, VOMITING, COMA, DEATH, FROSTBITE OR FREEZE BURNS.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES: IMMEDIATELY FLUSH WITH TEPID WATER IN LARGE QUANTITIES OR WITH A STERILE SALINE SO

LUTION. SEEK MEDICAL ATTENTION. SKIN:

FOR DERMAL CONTACT OR FROSTBITE, FLUSH AFFECTED AREA WITH LUKEWARM WATER. DO NOT USE HOT WATER. A PHYSICIAN SHOULD SEE THE VICTIM PROMPTLY IF THE CONTACT HAS RESULTED IN BLISTERING OF SKIN OR DEEP TISSUE FREEZING. PROMPT MEDICAL ATTENTION NECESSARY IN ALL CASES.

Flash Point:NONFLAMMABLE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN

Extinguishing Media: NOT FLAMMABLE; USE C

ARBON DIOXIDE, FOAM, DRY

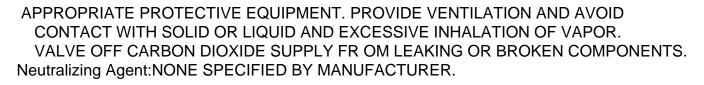
CHEMICAL, OR WATER FOG IF APPLICABLE.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: EXPOSURE TO FIRE OR SEVERE OVERHEATING CAN CAUSE CYLINDERS TO BURST.

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

Spill Release Procedures: EVACUATE ALL PERSONNEL FROM AREA. USE



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

Handling and Storage Precautions:PROVIDE GENERAL AND LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS. PROVIDE APPROVED SUPPLIED AIR OR SELF CONTAINED BREATHING APP

ARATUS IF NEEDED.

Other Precautions:DO NOT INSTALL STORAGE VESSELS IN SUB SURFACE OR CLOSED AREAS OR NEAR EXCESSIVE HEAT OR FLAME.

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

Respiratory Protection: POSITIVE PRESSURE AIR LINE WITH FULL FACE PIECE AND ESCAPE AIR SUPPLY OR SELF CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV

Protective Gloves: INSULATED AND COLD RESISTANT

Eye Protection:SAFETY OR

CHEMICAL GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING,EYE-WASH FACILITIES, EMERGENCY SHOWERS

Work Hygienic Practices: AVOID CONTACT WITH EYES AND SKIN.DO NOT BREATHE VAPORS OR MIST.

Supplemental Safety and Health

USE WITH ADEQUATE VENTILATION.

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

HCC:G3

Boiling Pt:B.P. Text:-109F,-79C

Melt/Freeze Pt:M.P/F.P Text:-109F,-79C

Vapor Pres:291.1 PSIG

Spec Gravity:1.65

pH:WEAK

Solubility in Water: NEGLIGIBLE

Appearance

and Odor:COLORLESS,ODORLESS GAS,MILKY WHITE SOLID,WATER

THOROUGHLY. SOLID

CARBON DIOXIDE SHOULD BE REMOVED OUT OF DOORS AND

ALLOWED TO SUBLIME. CONSULT LOCAL AUTHORITIES; DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL STAT E AND FEDERAL REGULATIONS.

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