

ADM CORN SWEETENERS -- CARBON DIOXIDE, REFRIGERATED LIQUID -- 4210-00-203-0217  
===== Product Identification =====

Product ID:CARBON DIOXIDE, REFRIGERATED LIQUID

MSDS Date:01/01/1988

FSC:4210

NIIN:00-203-0217

MSDS Number: BJRCD

=== Responsible Party ===

Company Name:ADM CORN SWEETENERS

Address:7627 W LAKE STREET

City:RIVER FOREST

State:IL

ZIP:60305

Country:US

Info Phone Num:312-771-2990

Emergency

Phone Num:312-771-2990

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:NO INGREDIENT FOR

THIS FORMULATION\_INGREDIENT

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION OF VAPOR IN CONCENTRATIONS OF 3-5% VOLUME IN AIR CAUSES INCREASED RESPIRATION AND HEADACHE; 8-15% CONCENTRATIONS CAUSE HEADACHE, NAUSEA, AND VOMITING, WHICH MAY LEAD TO UNCONSCIOUSNESS I  
F V ICTIM IS NOT MOVED TO OPEN AIR OR GIVEN OXYGEN; HIGHER CONCENTRATIONS CAUSE RAPID CIRCULATORY (SEE EFTS OF OVEREXP)  
Explanation of Carcinogenicity:NOT RELEVANT  
Effects of Overexposure:HLTH HAZ: INSUFFICIENCY LEADING TO COMA AND DEATH. PHYSICAL CONTACT WITH LIQUIFIED OR SOLID CARBON DIOXIDE CAN CAUSE FROSTBITE OR FREEZE BURNS.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHA  
L: CONSCIOUS PERSONS SHOULD BE ASSISTED TO AN UNCOMTAMINATED AREA AND INHALE FRESH AIR. QUICK REMOVAL FROM CONTAMD AREA IS MOST IMPORTANT. UNCONSCIOUS PERSONS SHOULD BE MOVED TO AN UNCONTAMD AREA, GIVEN MOUTH TO MOUTH RESUSCITATION AND SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMATIC & SUPPORTIVE. EYE: IMMEDIATELY FLUSH WITH TEPID WATER IN LRG QTY'S FOR AT LEAST 15 MIN (SEE SUPP DATA)

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

Flash Point:  
NONE  
Unusual Fire/Explosion Hazard:NONE. CO\*2 IS NON-FLAM INERT GAS. HOWEVER, EXPOS TO FIRE/SEV OVERHEATING CAN CAUSE CARBON DIOXIDE CYL TO BURST (CONT CYL MFR FOR DETAILS). (SEE SUPP DATA)

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

Spill Release Procedures:EVAC ALL PERSONNEL FROM AREA. USING APPROP PROT EQUIP, PROVIDE VENT TO AREA AND AVOID CONT W/SOLID OR LIQ AND EXCESSIVE INHAL OF VAP. VALVE OFF CARBON DIOXIDE SUPPLY FROM LEAKING/BROKEN COMPONENT

S. DO NOT RE-ENTER UNTIL TLV REQUIREMENTS ARE MET.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:PROVIDE GEN & LOC EXHAUST VENT TO MEET TLV REQUIREMENTS. PROVIDE APPRVD NIOSH/MSHA SUPPLIED AIR/SCBA WHEN EXPOS ARE ABOVE TLV. (SEE OTHER PREC)

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

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

Respiratory Protection:NIOSH/MSHA APPROVD POSITIVE PRESS AIR LINE WITH FULL FACEPIECE AND ESCAPE AIR SUPPLY OR SCBA SHOULD BE AVAIL FOR EMERGENCY USE.

Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST SHOULD BE LOCATED NEAR THE FLOOR.

Protective Gloves:INSULATED & COLD RESISTANT.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Pra

ctices:WASH HANDS FREQUENTLY AND THOROUGHLY DURING CONTACT WITH MATERIAL AND AT END OF WORKDAY .

Supplemental Safety and Health

VP: 291.1 PSIG @ 0F. EXPLO HAZ: BULK LIQ STORAGE CNTNRS ARE ALSO PRESSURIZED. CONSULT W/MFR/SUPPLIER BEFORE ATTEMPTING SERVICE, REPAIR, REMOVAL/ALTERATION. FIRST AID PROC: OR W/A STERILE SALINE SOLN. GET MD. SKIN: FOR DERMAL CONT/FROSTBITE, FLUSH AFFECTED AREA W/LUKEWARM WATER. DO NOT USE HOT WATER. (SEE INGRED 2)

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

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

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

Vapor Pres:SUPP DATA

Spec Gravity:1.65 @ 70F

Solubility in Water:1 TO 1 @ 60F & 1 ATM

Appearance and Odor:COLORLESS, ODORLESS GAS; MILKY WHITE SOLID; WATER WHITE LIQUID.

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

Stability Indicator/Materials to Avoid:YES  
NONE

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:NONE

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===== Dispos

al Considerations =====

Waste Disposal Methods:CONTAMINATED AREA SHOULD BE VENTILATED THOROUGHLY. SOLID CARBON DIOXIDE SHOULD BE REMOVED OUT OF DOORS AND ALLOWED TO SUBLIMATE. DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS .

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