

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

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Product Identification
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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 Phon

e 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

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Composition/Information on Ingredients
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Ingred Name:CARBON DIOXIDE

CAS:12

4-38-9
RTECS #:FF6400000
Fraction by Wt: 99.9%
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;93

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Hazards Identification
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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 DAT
A 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.

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First Aid Measures
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First Aid:EYES: IMMEDIATELY FLUSH WITH TEPID WATER IN LARGE QUANTITIES
OR WITH A STERILE SALINE S
OLUTION. 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.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:NOT FLAMMABLE; USE
CARBON 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.

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Accidental Release Measures
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Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AREA. USE

APPROPRIATE PROTECTIVE EQUIPMENT. PROVIDE VENTILATION AND AVOID CONTACT WITH SOLID OR LIQUID AND EXCESSIVE INHALATION OF VAPOR. VALVE OFF CARBON DIOXIDE SUPPLY FROM LEAKING OR BROKEN COMPONENTS. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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===== 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 APPARATUS IF NEEDED.

Other Precautions: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: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.

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===== 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

Appearanc

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

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:CONTAMINATED AREAS SHOULD BE VENTILATED
THOROUGHLY. SOLI
D 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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