

===== Product Identification =====

Product ID:UCON FLUOROCARBON 12

MSDS Date:11/01/1988

FSC:6830

NIIN:00-182-6315

MSDS Number: BMDMZ

=== Responsible Party ===

Company Name:UNION CARBIDE CORP INDUSTRIAL CHEMICALS DIV

Address:39 OLD RIDGEBURY ROAD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:800-822-4357

Emergency Phone Num:800-822-4357

CAGE:61637

=== Contra

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Address:39 OLD RIDGEBURY ROAD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357/732-563-5522 (MSDS)

CAGE:61637

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

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III)

CAS:75-71-8

RTECS #:PA8200000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ozone Depleting Chemical:

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALATION- ASPHYXIATION, CNS EFFECTS. EYES- LIQUID MAY CAUSE SEVERE CORNEAL INJURY. SKIN- LIQUID MAY CAUSE FROSTBITE. INGESTION- UNLIKELY AVENUE. FROSTBITE OF LIPS AND MOUTH. CHRONIC: UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION:

DIZZINESS, DISORIENTATION, LOSS OF

COORDINATION, NAUSEA, VOMITING, CONFUSION, AND STUPOR. SKIN: BURNS, BLISTERS (LIQUID). EYES: BURNUNG, TEARING, PAIN (LIQUID).

INGESTION: BURNS OF LIPS AN D MOUTH, BLISTERS (LIQUID).

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:SKIN/EYES: TREAT FOR FROSTBITE. WARM AREA WITH TOWEL WET WITH WARM WATER. SEE DOCTOR. INHALATION: REMOVE TO FRESH AIR.

RESUSCITATE IF NEEDED. SEE DOCTOR. INGESTION: SAME AS SKIN/EYES.

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

Flash Point:NONE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL CONTAINERS WITH FLOODING AMOUNTS OF WATER.

Unusual Fire/Explosion Hazard:COMPRESSED GAS. MAY EXPLODE IF EXPOSED TO FIRE. TOXIC FUMES MAY BE PRODUCED IF HEATED.

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

Spill Release Procedures:ISOLATE AREA AND DENY ENRTY. STOP LEAK IF IT CAN BE DONE WITHOUT RISK. VENTILATE AREA.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA.

Other Precautions:LIQUIFIED GAS UNDER PRESSURE. CLOSE VALVE WHEN NOT IN USE.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR WITH CARTRIDGE FOR ORGANIC VAPORS. IF IDLH CONDITIONS ARE PRESENT WEAR SELF-CONTAINED BREATHING APPARATUS.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION.

Protective Gloves:WORK GLOVES TO PREVENT FROSTBITE

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:METETARSAL SHOES FOR HANDLING CYLINDERS.

Work Hygienic Practices:WASH GANDS BEFORE EATING, DRINKING, OR SMOKING.

Supplemental Safety and Health

TH

IS MATERIAL IS A COMPONENT GAS OF A GAS MIXTURE USED IN CALIBRATION DEVICES. FISHER MAKES THE HEXANE; UNION CARBIDE THE REST. THERE ARE A TOTAL OF 6 GASES. THIS IS PART D OF THE UNION CARBIDE GROUP. THE GROUP IS A-E. THERE IS 50 PPM OF THIS MATERIAL IN THE MIXTURE.

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

HCC:G3

Boiling Pt:B.P. Text:-22F,-30C

Melt/Freeze Pt:M.P/F.P Text:-252F,-158C

Vapor Pres:70.2 @ 21C

Vapor Density:4.2 @ 20C

Spec Gravity:1.49 @ -30C

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olubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS LIQUID WITH ETHERAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

MAGNESIUM AND ALUMINIUM ALLOYS. NATURAL RUBBER.

Stability Condition to Avoid:HIGH TEMPERATURES.

Hazardous Decomposition Products:TOXIC FUMES OF CHLORINE AND FLUORINE.

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

Waste Disposal Methods:CONTACT LO

CAL ENVIRONMENTAL MANAGER. DISPOSE OF

IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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