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UNION CARBIDE CORP -- UCON FLUOROCARBON 12 -- 6830-00-935-9895

Product ID: UCON FLUOROCARBON 12 MSDS Date:11/01/1988 FSC:6830 NIIN:00-935-9895 MSDS Number: BFYCV === Responsible Party === Company Name: UNION CARBIDE CORP Address:39 OLD RIDGEBURY RD City:DANBURY State:CT ZIP:06817-0001 Country:US Info Phone Num:800-822-4357 OR 304-744-3487 Emergency Phone Num:800-82 2-4357 OR 304-744-3487 CAGE:6M841 === Contractor Identification === Company Name: UNION CARBIDE CORP Address:OLD RIDGEBURY RD Box:City:DANBURY State:CT ZIP:06817 Country:US CAGE:6M841 Company Name: UNION CARBIDE CORP LINDE DIV Address:39 OLD RIDGEBURY RD Box:City:DANBURY State:CT ZIP:06817-0001 Country:US Phone:800-822-4357; 304-744-3487 CAGE:36346

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III) CAS:75-71-8 RTECS #:PA8200000 Fraction by Wt: 100% OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ozone Depleting Chemical:1

LD50 LC50 Mixture:TLV 1000 PPM

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

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

Health Hazards Acute and Chronic:FROSTBITE TO TISSUES UPON CONTACT WITH LIQUID. PRODUCT IS AN ASPHYXIANT. HIGH CONCENTRATIONS CAN CAUSE CENTRAL NERV

OUS SYSEM DISTURBANCES, SUFFOCATION, DEATH, CARDIAC

ARRHYTHMIAS OR ARREST DUE TO SENS ITIZATION OF HEART TO ADRENALIN.

EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE FLU-LIKE SYMPTOMS. Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT

CARCINOGENS.

Effects of Overexposure: FROSTBITE, SEVERE TISSUE DAMAGE TO EYES/SKIN/MUCOUS MEMBRANES, DIZZINESS, NAUSEA, VOMITING, DISORIENTATION, CONFUSION,

INCOORDINATION, NARCOSIS, SUFFOCATION,

DEATH, HEART IRREGULARITIES.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:SKIN: IMMEDIATELY WARM FROSTBITE AREA WITH WARM WATER. IN CASE OF MASSIVE EXPOSURE, REMOVE CLOTHING WHILE SHOWERING WITH WARM WATER. CALL A PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFF

ICULT. CALL A PHYSICIAN. EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. SEE PHYSICIAN IMMEDIATELY, AN OPHTHALMOLOGIST IF POSSIBLE.

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:NONFLAMMABLE. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: EVACULATE ALL PERSONNEL FROM DANGER AREA. IMMEDIATELY DELUGE CONTAINERS WITH WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL, THEN MOVE CONTAINERS AWAY FROM FIRE. Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. TOXIC FUMES MAY BE PRODUCED WHEN HEATED.

Spill Release Procedures: EVACUATE ALL PERSONNEL FORM DANGER AREA. USE SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF LEAD IF POSSIBLE. VENTILATE AREA OR MOVE LEAKING CONTAINER TO WELL VENTILATED AREA. TEST FOR SUFF ICIENT OXYGEN BEFORE REENTRY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE AND USE WITH ADEQUATE
VENTILATION. USE ONLY IN A CLOSED SYSTEM. CLOSE CYLINDER VALVE WHEN NOT IN USE AND WHEN EMPTY. DO NOT SMOKE IN AREA.
Other Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN THE SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR.

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

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH RESPIRATOR SELECTION.

Ventilation:LOCAL EXHAUST PREFERRED. USE LOCAL EXHAUST TO MAINTAIN EXPOUSRE BELOW THE APPLICABLE LIMIT.

Protective Gloves:NEOPRENE

Eye Protection: SELECT IAW OSHA 29 CFR1910.133

Other Protective Equipment:MET

ATARSAL SHOES FOR CYLINDER HANDLING.

SELECT IAWW 29 CFR 1910.132 AND 1910.133.

Work Hygienic Practices: WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

NOTE TO PHYSICIAN: DO NOT ADMINISTER ADRENALIN DUE TO THE SENSITIZING EFFECT OF FLUOROCARBONS ON THE MYCARDIUM. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION.

========= Physical/Chemical Propert

HCC:G3 Boiling Pt:B.P. Text:-22F,-30C Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Vapor Pres:70.2 PSIG Vapor Density:4.2 Spec Gravity:1.486 Evaporation Rate & amp; Reference:HIGH Solubility in Water:NEGLIGIBLE Appearance and Odor:COLORLESS GAS, ETHEREAL ODOR AT CONCENTRATIONS > 20% Percent Volatiles by Volume:100 %

Stability Indicator/Materials to Avoid:YES MAGNESIUM AND ITS ALLOYS CONTAINING > 2% MAGNESI UM IN THE PRESENCE OF WATER, NATURAL RUBBER, ALUMINUM. Stability Condition to Avoid:ELEVATED TEMPERATURES Hazardous Decomposition Products:HYDROGEN CHLORIDE, HYDROGEN FLUORIDE, CARBON MONOXIDE, CARBON DIOXIDE.

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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