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ALLIED CORPORATION, CHEMICAL SECTOR -- GENETRON (R) 500 AZEOTROPE 6830-00-088-0595 Product ID:GENETRON (R) 500 AZEOTROPE MSDS Date:01/01/1986 FSC:6830 NIIN:00-088-0595 MSDS Number: BNBYH === Responsible Party === Company Name: ALLIED CORPORATION, CHEMICAL SECTOR Box:1139R City:MORRISTOWN State:NJ ZIP:07960 Country:US Info Phone Num:201-455-4157 **Emergency Phone** Num:201-455-2000 CAGE:OLYW2 === Contractor Identification === Company Name: ALLIED CORPORATION, CHEMICAL SECTOR Box:1139R City:MORRISTOWN State:NJ ZIP:07960 Country:US Phone:201-455-2000 CAGE:OLYW2 Company Name: REFRIGERATION SALES CO INC Address:38-18 33RD ST Box:City:LONG ISLAND CITY State:NY ZIP:11101-2211 Country:US Phone:800-221-0603 CAGE:3A676

Ingred Name:GENETRON(R) 12 DICHLORODIFLUOROMETHANE (VAPOR PRESSURE 70.2 PSI

G @70F)(MOLECULAR WEIGHT 120.91)(FORMULA:CCL2F2) # CAS:75-71-8 RTECS #:PA8200000 Fraction by Wt: 73.8% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS **Ozone Depleting Chemical:1** Ingred Name:# LC50 (IHL-RAT) 80 PPH/30 MIN. TLCLO (HUMAN): 200,000 PPM/30 MIN. RTECS #:9999992Z Other REC Limits:NONE SPECIFIED Ingred Name: GENETRON (R) 152A DIFLUOROETHANE (VAPOR PRESSURE 62.5 PSIG @ 70F) (MOLECULAR WEIGHT: 66.05) (FORMULA: CH3CHF 2)## CAS:75-37-6 RTECS #:KI1410000 Fraction by Wt: 26.2% Other REC Limits:1000 PPM Ingred Name:## LCLO (IHL RAT) 50 PPH/10 MIN. RTECS #:9999992Z Other REC Limits:NONE SPECIFIED

LD50 LC50 Mixture:SEE INGREDIENTS

Health Hazards Acute and Chronic:INHAL: PREDOMINANT HZD IS ASPHYXIA. MAT'L IS LOW IN TOXICITY AT CONCENTRATIONS AS HIGH AS 4%. WHEN OXYGEN LEVELS IN AIR ARE REDUCED TO 12-14% SYMPTOMS OF ASPHYXIATION WILL

OCCUR. SKIN: CONTACT W/ LIQU ID MAT'L CAN CAUSE FROSTBITE, INDICATEDBY PALLOR OR REDNESS, LOSS OF SENSATION AND SWELLING. EYES: SAME AS FOR SKIN.

Effects of Overexposure:INHALATION: LOSS OF COORDINATION, INCREASED PULSE RATE, CARDIAC SENSITIZATION AND DEEPER RESPIRATION ARE POSSIBLE. MILD CNTRL NERV SYS DEPRESS. CARDIAC ARRHYTHMIA & MYOCARDIAL DEPRESSION SEEN IN ANIMA L STUDIES. THIS PRODUCT CAN CAUSE DEATHOR SERIOUS PERSONAL INJURY IF NOT HANDLED PROPERLY. Medical Cond

Aggravated by Exposure:WORKERS WITH CARDIOVASCULAR OR PULMONARY PROBLEMS SHOULD HAVE MEDICAL EVALUATION BEFORE EXPOSURE.

First Aid:INHAL: REMOVE IMMED TO FRESH AIR. IF BREATH STOPPED, GIVE ARTIF RESP (MOUTH-TO-MOUTH). CALL DR. USE OXYGEN AS REQ'D IF QUALIFIED OPERATOR AVAILABLE. DON'T GIVE EPINEPHRINE (ADRENALIN). SKIN: IMMED BAT HE FROSTBITE (DON'T RUB) W/LUKEWARM (NOT HOT) WATER. IN ABSENCE OF WATER, COV

ER W/SOFT WOOL, ETC. CONTACT DR FOR ANY LOW TEMP BURN FROM LIQ. REMOVE CONTAM CLOTH. EYE: LIFT EYELID WHILE WASHING 15 MIN.

Extinguishing Media: ANY STANDARD AGENT--CHOOSE THE ONE THAT IS APPROPRIATE FOR TYPE OF FIRE.

Fire Fighting Procedures:WEAR SCBA FOR PROTECTION AGAINST SUFFOCATION & POSSIBLE TOXIC DECOMP PRODUCTS. PROVIDE EYE & SKIN PROTECTION. USE WATER SPRAY TO COOL FIRE EXPOSED CNTNRS.

Unusual Fire

/Explosion Hazard:NOT COMBUST, CONTACT W/SOME METALS MAY PRODUCE EXOTHERMIC REACTION/POTENTIALLY EXPLOS COMBINATIONS. SEE HAZARD DECOMP.

Spill Release Procedures: IF LRG QTY RELEASED, EVACUATE UNTIL DISSIPATED. USING SELF-CONTAINED AIR SUPPLY & PROTECT FROM FROSTBITE, ATTEMPT TO CLS VALVE/REPAIR LEAK, IF W/OUT RISK. VENT. REMOVE LEAKING CYLNDR TO OUTSIDE. UPRIG HT OVERTURNED CYLNDR. MAY NEED TO REPORT SP ILL.

Handling and Storage Precautions: AVOID EYE/SKIN/CLOTHING CONTACT. DON'T PUNCTURE/DROP CYLINDERS/EXPOSE TO FLAME/HEAT. USE AUTHORIZED CNTNRS. FOLLOW STD SFTY PRECAUTION FOR COMPRSD GAS
Other Precautions: STORE IN COOL, DRY, VENTED AREA AWAY FROM HEAT/FLAME/ COMBUSTIBLES. PROTECT CYLINDER & FITTINGS FROM DAMAGE. AVOID STORAGE IN SUBSURFACE LOCATIONS. FOLLOW OSHA REGULATIONS FOR COMPRESSED GAS & FOR CYL IN

DER HANDLING.

Respiratory Protection:NONE GENERALLY REQUIRED FOR ADEQUATELY VENTED SITUATIONS. FOR ACCIDENTAL OR NON-VENTILATED SITUATIONS, WHERE CONCENTRATIONS MAY BE HIGH, USE A SCBA OR SUPPLIED-AIR RESPIRATOR W/FULL FACEPIECE. ALL EQU IPMENT SHOULD BE APPROVED BY NIOSH.

Ventilation:PROVIDE LOCAL EXHAUST AT FILLING ZONES & WHEREVER LEAKAGE PROBABLE. MECHANICAL (GEN) VENT FOR OPERATING/STORAGE AREAS. Protectiv

e Gloves: IMPERVIOUS W/MYLAR COATED DURAFAB

Eye Protection: CHEM SAFETY GOGGLES IF CONTACT

Other Protective Equipment:WEAR IMPERVIOUS SHOES & CLOTHING WHERE LEAKAGE IS PROBABLE. GLOVES, CLOTHING, SHOES SHOULD BE THERMALLY INSULATED.

Work Hygienic Practices: PROVIDE WATER SOURCE--FIRST AID TREATMENT (FROSTBITE). (PVA/NEOPRENE-2ND CHOICES) & THERMAL INSULATION UNDERNEATH.

Supplemental Safety and Health

IS REASONABLE PROBABILITY. IN THIS CASE, DON'T WEAR CONTACT LENSES. HIGH CONC

IN AIR (20X TLV) HAVE BEEN SHOWN TO REDUCE VENT CAPACITY OF LUNGS TEMPORARILY & TO PRODUCE MINOR CARDIAC EFFECTS (INCREASE D BY EPINEPHRINE).

HCC:G3

Boiling Pt:B.P. Text:-28F,-34C Melt/Freeze Pt:M.P/F.P Text:-158TO-119C Vapor Pres:85.4 PSIG Vapor Density:3.52 @ 0C Spec Gravity:1.171 LIQ;WTR=1 Evaporation Rate & amp; Reference:N/K & 1 ATM Solubility in Water:SLIGHT Appearance and Odor:COLORLESS GAS WITH FAINT ETHEREAL O DOR. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES

STRONG OXIDANTS (HALOGENS), HOT REACTIVE METALS (MOLTEN AL, SHAVINGS BARIUM, LITHIUM). ALKALINE EARTH METALS.

Stability Condition to Avoid:FIRES, HOT SURFACES, LIGHTED CIGARETTES, WELDING. HIGH TEMPERATURES CAUSE DECOMPOSITION, YIELDING TOXIC GASES.

Hazardous Decomposition Products:NO ACTUAL DATA, BUT FROM ANALOGY (OTHER FLUOROCARBO

NS): HALOGENS, HALOGEN ACIDS, CARBONYL HALIDES (PHOSGENE), CO, CO2.

Waste Disposal Methods:DISPOSAL OF WASTE PRODUCT MAY BE SUBJECT TO FED REGS. REVIEW OPERATIONS, THEN CONSULT W/REGULATORY AGENCIES BEFORE DISCHARGING/DISPOSING OF WASTE MATERIAL. DISPOSAL BY LICENSED WASTE DISPOSAL COMPANY MAY BE NECESSARY. EPA HAZARDOUS WASTE #U075.

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