

GENETRON (R) 500 AZEOTROPE

MSDS Number

BNBYJ

National Stock Number

6830-00-089-0697

Product Name

GENETRON (R) 500 AZEOTROPE

Manufacturer

ALLIED CORP CHEMICAL SECTOR

Product Identification

Product ID: GENETRON (R) 500 AZEOTROPE

MSDS Date: 08/01/1985

FSC: 6830

NIIN: 00-089-0697

MSDS Number: BNBYJ

Responsible Party

ALLIED CORPORATION, CHEMICAL SECTOR

MORRISTOWN , NJ 07960

US

Emergency Phone: 201-455-2000

Info Phone: 201-455-4157

Cage: OLYW2

Contractor

REFRIGERATION SALES CO INC

LONG ISLAND CITY, NY 11101-2211

US

800-221-0603

Cage: 3A676

Ingredients

GENETRON(R) 12 DICHLORODIFLUOROMETHANE (VAPOR PRESSURE 70.2

CAS: 75-71-8

RTECS: PA8200000

Fraction By Weight: 73.8%

OSHA PEL1000 PPM

ACGIH TLV: 1000 PPM

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

200,000

RTECS: 9999999ZZ

GENETRON (R) 152A DIFLUOROETHANE (VAPOR PRESSURE 62.5 PSIG

CAS: 75-37-6

RTECS: KI1410000

Fraction By Weight: 26.2%

LCLO (IHL RAT) 50 PPH/10 MIN.

RTECS: 9999999ZZ

Hazards

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

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

Fire Fighting

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.

Accidental Release

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 SPILL.

Handling

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 INDER HANDLING.

Exposure Controls

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.

Protective 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).

Chemical Properties

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

Spec Gravity:1.171

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS GAS WITH FAINT ETHEREAL ODOR.

Percent Volatiles by Volume:100

Stability

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

Disposal

Waste Disposal Methods:DISPOSE 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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