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ALLIED-SIGNAL INC/ENGINEERED MATERIALS SECTOR -- GENETRON (R) 502 AZEOTROPE -- 6830-00-144-9952

Product ID:GENETRON (R) 502 AZEOTROPE MSDS Date:05/01/1989 FSC:6830 NIIN:00-144-9952 **MSDS Number: BNPLK** === Responsible Party === Company Name: ALLIED-SIGNAL INC/ENGINEERED MATERIALS SECTOR Box:1139R City:MORRISTOWN State:NJ ZIP:07962-1139 Country:US Info Phone Num:201 -455-4157 Emergency Phone Num:201-455-2000 Preparer's Name:N/K AZEOTRPOIC MIXTURE CAGE:0B7T5 === Contractor Identification === **Company Name: HONEYWELL INTL INC** Address:101 COLUMBIA RD Box:City:MORRISTOWN State:NJ ZIP:07960 Country:US Phone:201-455-2000/800-707-4555 CAGE:0B7T5 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 Company Name: WITCO CHEMICAL GOLDEN BEAR DIVISION Address:10100 SANTA

MONICA BLVD SUITE 1470 Box:City:LOS ANGELES State:CA ZIP:90067 Country:US Phone:800-393-7110 CAGE:70708

Ingred Name:CHLORODIFLUOROMETHANE (GENETRON 22) (VAPOR PRESSURE 136 PSIG @ 70 F) CAS:75-45-6 RTECS #:PA6390000 Fraction by Wt: 48.8% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM Ozone Depleting Chemical:2

Ingred Name:CHLOROPENTAFLUOROETHANE (GENETRON 115) (VAPOR PRESSURE 102 PSIG @ 70 F) CA S:76-15-3 RTECS #:KH7877500 Fraction by Wt: 51.2% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM Ozone Depleting Chemical:1

LD50 LC50 Mixture:N/K #EXPLOSIVE COMBINATIONS.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Health Hazards Acute and Chronic:INHAL: VAPORS CAN ASPHYXIATE AT HIGH CONCENTRATIONS BY DISPLACEMENT OF OXYGEN IN AIR FOR BREATHING. EXPOSURE TO VERY HIGH CONCENTRATIO
NS MAY PRODUCE NARCOSIS, HEART PALPITATIONS OR ARRHYTHMIAS. INGEST ION: NOT PERTINENT, SINCE MATERIAL IS GASEOUS AT NORMAL TEMPERATURES AND PRESSURE. SKIN: CONTACT WITH COLD LIQUID OR###
Explanation of Carcinogenicity:N/K ##EARTH METALS, SUCH AS SODIUM, POTASSIUM, BARIUM, ETC. (CAUSE EXOTHERMIC REACTION).
Effects of Overexposure:###ESCAPING GAS CAN CAUSE FROSTBITE, INDICATED BY PALLOR OR REDNESS, LOSS OF SENSATION AND SWELLING OF AFFECTED AREAS. IF NO FROSTBITE, IRRITATIO

Ν	CAUSED BY DEFATTING OF TISSUE
	MAY BE EXPERIENCED. EYE S: SAME EFFECT FROM LIQUID CONTACT AS FOR
	SKIN.

First Aid:INHAL: MOVE IMMED TO FRESH AIR. IF BREATH STOPPED-GIVE MOUTH-TO-MOUTH RESUSCITATION. GIVE OXYGEN, AS NECESSARY, PROVIDED A QUALIFIED OPERATOR IS AVAILABLE. CALL DR. DONT GIVE EPINEPHRINE (ADRENALIN). SKIN/EYE: IMMED BATHE ANY FROSTBITE (DONT RUB) W/LUKEWARM WTR. IN ABSENCE OF WTR, COVER W/ SOFT WOOL/SUITABLE MATL.

CALL DR FOR LOW TEMP BURNS FROM LIQ CONTACT. IF NO FROSTBITE, IMMED FLUSH CONTACT\$

Extinguishing Media:ANY STANDARD AGENT--CHOOSE THE ONE MOST SUITABLE FOR SURROUNDING FIRE (THIS MATERIAL ITSELF IS NOT FLAMMABLE). Fire Fighting Procedures:WEAR SELF-CONTAINED, NIOSH APPROV BREATHING

APPARATUS FOR PROTECT AGAINST SUFFOCATION/POSS TOXIC DECOMP PROD. PROPER EYE PROTECT/CLOTHING SHOULD

BE PROVIDED.

Unusual Fire/Explosion Hazard:CNTNRS MAY RUPTURE IN FIRE DUE TO OVERPRESS, RELEASING LG VOL OF GAS/VAPOR. CONTACT W/CERTAIN METALS & OXIDIZING MATL MAY PROD EXOTHERMIC REACTIONS/POTENTIAL#

- Spill Release Procedures:USE SELF CONTAINED AIR SUPPLY/PROTECT AGAINST FROSTBITE, INVOLVED PERSONNEL SHOULD ATTEMPT TO CLOSE VALVES/REPAIR SOURCE OF LEAK/REMVE ANY OPEN FLAMES, IF W/OUT RISK & PROVIDE ADEQUAT
- E VENT. UNPROTECT PERSONNEL SHOULD BE REMVD FROM AREA. IF LARGE\$\$
- Neutralizing Agent:N/K \$AREAS W/LG AMT OF WTR. EYE: LIFT LIDS DURING WASH FOR 15 MINS. RMV CLOTH

Handling and Storage Precautions:DONT BREATHE GAS. AVOID CONTACT W/EYES/SKIN/ CLOTHING. DONT PUNCTURE/DROP OR EXPOSE CYLINDERS TO OPEN FLAME/EXCESS HEAT. USE AUTHORIZED CNTNRS ONLY.\$\$ Other Precautions:PROD CAN CAUSE SERIOUS PERSONAL INJURY/DEATH IF NOT

HANDLED PROPERLY. FOLLOW OSHA REG FOR COMPRESSED GASES & AIRBORNE CONTAMINANTS (29CFR1910.101) FOR CYLINDER HANDLING.

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

Respiratory Protection:NONE GENERALLY REQUIRED FOR ADEQUATELY VENTED WORK SITUATIONS, FOR ACCIDENTAL OR NON-VENTILATED SITUATIONS, WHERE CONC EXCEED 1000PPM, USE SCBA OR SUPPLIED AIR RESPIRATOR, APPROVED BY NIOSH. AT HIGH C ONCENTRATIONS, ADD A FULL FACEPIECE. Ventilation:ADEQ TO MEET AC GIH/TLV REQ/MINIMIZE EXPOS SHOULD MATL BE

RELEASED INTO ATMOSPHERE. PROVIDE LOCAL EXHAUST AT FILLING Protective Gloves: IMPERVIOUS, NEOPRENE.

Eye Protection: SFTY GLASS/CHEM SFTY GOG/NO CONTACT LENS

Other Protective Equipment: IMPERVIOUS CLOTHING WITH THERMAL INSULATION UNDERNEATH. CONTAMINATED WITH LIQUID MATERIAL AND WASH BEFORE REUSE.

Work Hygienic Practices:N/K ZONES/WHERE LEAKAGE IS PROBABLE. MECHANICAL (GENERAL) VENT MAY BE ADEQ FOR OTHER OPERATING/STORAGE AREAS. Supplemental

Safety and Health

\$\$\$FOLLOW LABEL INSTRUCT/OBSERVE STANDARD SFTY PRECAUTIONS FOR HANDLING CYLNDR OF COMPRESS GAS. STORE IN COOL/DRY/ WELL VENT AREA AWAY FROM HEAT/FLAME/COMBUST. PROTECT CYLNDR/FITTINGS FROM PHYSICAL DA MAGE. STORAGE IN SUBSURFACE LOCATIONS SHOULD BE AVOIDED. KEEP VALVE TGHTLY CLOSED AFTER USE/WHEN EMPTY.

HCC:G3 Boiling Pt:B.P. Text:-45.4C Vapor Pres:137.6 PSIG Vapor Density:3.93 @ 1# Spec Grav ity:1.258 (LIQUID) Solubility in Water:SLIGHT Appearance and Odor:COLORLESS LIQUEFIED GAS WITH FAINT ETHEREAL ODOR AT HIGHER CONCENTRATIONS. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES STRONG OXIDANTS, INCLUD HALOGENS, HOT REACTIVE METALS: MOLTEN ALUM/BARIUM SHAVINGS/LITHIUM. DONT EXPOSE TO ALKALINE## Stability Condition to Avoid:FIRES, HOT SURFACES, LIGHTED CIGARETTES, WELDING. HIGH TEMPERATURES CAUSE DECOMPOSITION, YIELDING TOXIC GASES.

Hazardous Decomposition Products:BY ANALOGY: FLUOROCARBONS, DECOMP PROD HALOGENS/HALOGEN ACIDS/CARBONYL HALIDES (PHOSGENE/CARBON MONOXIDE/CARBON DIOXIDE)

Waste Disposal Methods:N/K \$\$QUANTITY IS RELEASED, EVAC PERSONNEL & ALLOW TO DISSIPATE AT A RATE, IF POSSIBLE, THAT WILL NOT EXCEED TLV LIMITS. ANY RELEASE TO THE ENVIRON OF THIS MATL MAY BE SUBJECT T O

FEDERAL.STATE REPORTI NG REQUIREMENTS. CHECK WITH APPROPRIATEAGENCIES

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