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ALLIED-SIGNAL CORP,ENGINEERED MATERIALS DIV -- GENETRON 502 AZEOTROPE 6830-00-138-2482

Product ID:GENETRON 502 AZEOTROPE MSDS Date:05/01/1989 FSC:6830 NIIN:00-138-2482 **MSDS Number: BDBHZ** === Responsible Party === Company Name: ALLIED-SIGNAL CORP, ENGINEERED MATERIALS DIV Address: PARK AVE AND COLUMBIA RD Box:1087R City:MORRISTOWN State:NJ ZIP:07960 Country:US Inf o Phone Num:201-455-4157 Emergency Phone Num:201-455-4157 CAGE:0W357 === Contractor Identification === Company Name: ALLIED-SIGNAL INC Box:2332R City:MORRISTOWN State:NJ ZIP:07962-2332 Country:US Phone:201-455-4414 CAGE:1L164 Company Name: PDI GROUND SUPPORT SYSTEMS INC Address:5905 GRANT AVE Box:City:CLEVELAND State:OH ZIP:44105 Country:US Phone:216-271-7344 CAGE:0W357

Ingred Name:CHLORODIFLUOROMETHANE CAS:75-45-6 RTECS #:PA63 90000 Fraction by Wt: 48.8% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000PPM; 9192 Ozone Depleting Chemical:2

Ingred Name:CHLOROPENTAFLUOROETHANE (SARA III) CAS:76-15-3 RTECS #:KH7877500 Fraction by Wt: 51.2% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9192 Ozone Depleting Chemical:1

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC: NO OSHA:NO

Health Hazards Acute and Chronic:HEALTH HAZARDS: ACUTE: MAY CAUSE ASPHYXIATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. EXPOSURE TO VERY HIGH CONCENTRATIONS MAY PRODUCE NARCOSIS AND HEART IRREGULARITIES. LIQUID CAN CAUSE FROSBITE. CHRONIC: NONE SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenicity:NONE OF THE INGREDIENTS IN THIS PRODUCT IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.

Effects of Overexposure:LIQUID CAN CAUSE FROSTBITE. VAPOR CAN CAUSE LIG

HTHEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. Medical Cond Aggravated by Exposure:INDIVIDUALS WITH A HISTORY OF CARDIOVASCULAR OR RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:EYES:FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.SEE DOCTOR. SKIN:WASH WITH WATER.TREAT FOR FROSTBITE. INHALATION:REMOVE VIC TIM TO FRESH AIR.GIVE OXYGEN/CPR IF NEEDED.SEE DOCTOR.DO NOT GIVE EPI NEPHRINE OR SIMILAR DRUGS. NOTE TO PHYSICIAN: BECAUSE OF INCREASED RISK OF CARDIAC DYSRYTHMIAS,CATECHOLAMINE DRUGS,SUCH AS EPINEPHRINE SHOULD BE CONSIDERED ONLY AS A LAST RESORT.

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A

FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. CONTAINERS UNDER PRESSURE MAY RUPTURE WITH HEAT OF FIRE.

Spill Release Procedures: REMOVE PERSONNEL. REMOVE OPEN FLAMES. VENTILATE AREA, ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. WEAR SE

LF-CONTAINED BREATHING APPARATUS AND PROTECTION AGAINST FROSTBITE. STOP LEAK IF WIT HOUT RISK. IF NOT ALLOW TO DISSIPATE.

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT, FLAME OR COMBUSTIBLES. PROTECT FROM PHYSICAL DAMAGE. AVOID SUBSURFACE LOCATIONS. KEEP CLOSED.
Other Precautions:AVOID EYE AND SKIN CONTACT. DO NOT BREATHE GAS. DO NOT PUNCTURE OR DROP CYLINDER OR EX POSE TO OPEN FLAME OR HEAT. USE

AUTHORIZED CONTAINER ONLY. FOLLOW LABEL INSTRUCTIONS AND OBSERVE STANDARD SAFETY P RECAUTIONS FOR COMPRESSED GAS CYLINDERS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED SELF-CONTAINED BREATHING APPARATUS FOR ACCIDENTAL RELEASES OR NON-VENTILATED SITUATIONS.

Ventilation: GENERAL (MECHANICAL) VENTILATION IN LOW PLACES. USE LOCAL EXHAUST FOR LARGE RELEASE.

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rotective Gloves: MYLAR OUTSIDE. THERMAL INSULATION INSIDE Eve Protection: CHEMICAL SPLASH GOGGLES. Other Protective Equipment: PROTECTIVE CLOTHING WITH OUTER LAYER OF MYLAR AND THERMAL INSULATION UNDERNEATH. WATER SOURCE FOR FROSTBITE. Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health ITEM NAME: MONOCHLORODIFLUOROMETHANE AND MONOCHLOROPENTAFLUOROETHANE, AZEOTROPIC MIXTURE. OTHER PRECA UTIONS: WEAR IMPERVIOUS BOOTS OR SHOES WITH OUTER LAYER OF MYLAR AND THERMAL INSULATION UNDERNEATH. HCC:G3 Boiling Pt:B.P. Text:-50F,-45C Vapor Pres:137.8 Vapor Density:3.93 Spec Gravity:1.258 Solubility in Water:SLIGHT. Appearance and Odor: COLORLESS LIQUIFIED GAS WITH FAINT ETHEREAL ODOR AT HIGH CONCENTRATIONS. Percent Volatiles by Volume:100

Stabi

lity Indicator/Materials to Avoid:YES

STRONG OXIDANTS, MOLTEN ALUMINUM, SHAVINGS OF BARIUM, LITHIUM, ALKALINE EARTH METALS SUCH AS SODIUM, POTASSIUM, BARIUM.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:HALOGENS, HALOGEN ACIDS, CARBONYL HALIDES SUCH AS PHOSGENE, CARBON MONOXIDE, CARBON DIOXIDE.

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMEN TAL OFFICER.

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. MANUFACTURER STATES NOT A HAZARDOUS WASTE.

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