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ALLIED-SIGNAL CORP, ENGINEERED MATERIALS DIV -- GENETRON 502 AZEOTROPE

6830-00-138-2482

============= Product Identification =================

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

======= Composition/Information on Ingredients ========

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

============= Hazards Identification ========================

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.

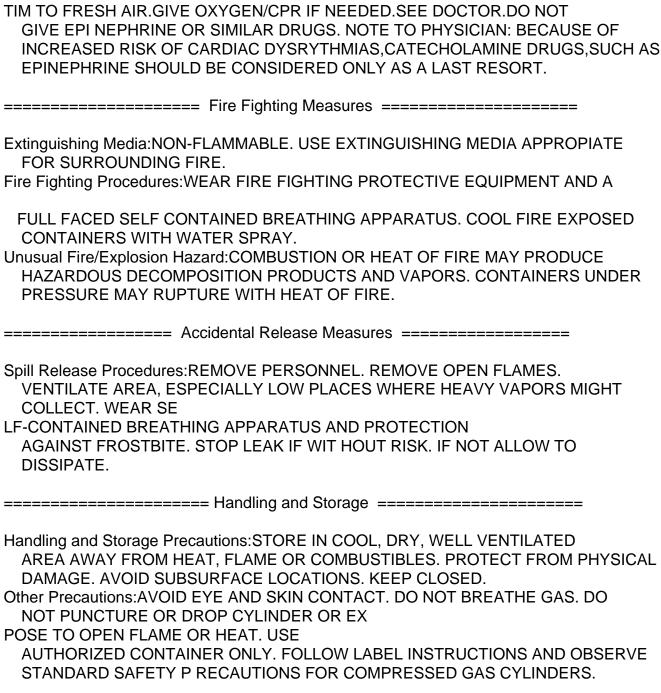
Explanation of Carcinogenicity: NONE OF THE INGREDIENTS IN THIS PRODUCT IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.

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



====== 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.

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.

========= Physical/Chemical Properties ===========

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

======== Stability and Reactivity Data ==========

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.

======= Disposal Considerations =============================

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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