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ALLIED-SIGNAL INC, ENGINEERED MATERIALS SECTOR -- GENETRON 502 AZEOTROPE - 6830-00-144-9952

Product ID:GENETRON 502 AZEOTROPE MSDS Date:05/01/1989 FSC:6830 NIIN:00-144-9952 MSDS Number: BBGZP === Responsible Party === Company Name: ALLIED-SIGNAL INC, ENGINEERED MATERIALS SECTOR Box:1139R City:MORRISTOWN State:NJ ZIP:07962-1139 Country:US Info Phone Num:201 455-415 7 Emergency Phone Num:201 455-2000 Preparer's Name:NONE 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: HONEYWELL INTL INC ENVIRONMENTAL SYSTEMS AND SERVICES Address:101 COLUMBIA RD Box:City:MORRISTOWN State:NJ ZIP:07962 Country:US Phone:973-455-3922 CAGE:70308

Ingred N

ame:CHLOROPENTAFLUOROETHANE (SARA III) CAS:76-15-3 RTECS #:KH7877500 Fraction by Wt: 51.2% Other REC Limits:NONE RECOMMENDED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9394 Ozone Depleting Chemical:1

Ingred Name:CHLORODIFLUOROMETHANE CAS:75-45-6 RTECS #:PA6390000 Fraction by Wt: 48.8% Other REC Limits:NONE RECOMMENDED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9394 Ozone Depleting Chemical:2

LD50 LC50 Mixture: ORAL LD50 (RAT) IS UNKNOW N. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: ACUTE: EYES: IRRITATION, FROSTBITE. SKIN: IRRITATION, DEFATTING, FROSTBITE. INHALATION: ASPHYXIATION AT HIGH CONCENTRATIONS, NARCOSIS, HEART PALPITATIONS OR ARRHYTHMIAS AT VERY HIGH CONCENTRATIONS. IN GESTION: NOT PERTINENT, SINCE MATERIAL IS GASEOUS AT AMBIENT CONDITIONS. CHRONIC: NONE KNOWN. Explanation of Carcinogenicity:NONE Effects of Overexposure: EYES: IRRITATION, FROSTBITE. SKIN: IRRITATION, DEFATTING, FROSTBITE, LOSS OF SENSATION, SWELLING. INHALATION: ASPHYXIATION, NARCOSIS, HEART PALPITATIONS, ARRHYTHMIAS. INGESTION: NOT PERTINANT. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES/SKIN: BATHE ANY FROSTBITE (DO NOT RUB) WITH LUKEWARM (NOT HOT) WATER. IN ABSENCE OF WATER, COVER WITH SOFT WOOL OR OTHER SUITABLE MATERIAL. IF NO FROSTBITE, FLUSH AREAS WITH LARGE AMOUNTS OF WATE R. REMOVE ANY CLOTHING CONTAMINATED WITH LIQUID. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. GIVE OXYGEN AS NECESSARY.GET MEDICAL ATENTION.DO NOT GIVE EPINEPHRINE.

Flash Point:NON-FLAMMABLE

Extinguishing Media: ANY STANDARD AGENT. CHOOSE THE ONE MOST SUITABLE FOR SURROUNDING FIRE (THIS MATERIA

L ITSELF IS NOT FLAMMABLE).

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND FULL FACE-PIECE SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF. Unusual Fire/Explosion Hazard:CONTAINERS MAY RUPTURE IN FIRE DUE TO PRESSURE. CONTACT WITH CERTAIN METALS AND OXIDIZING MATERIALS MAY PRODUCE EXOTHERMIC REACTIONS OR EXPLOSIVE COMBINATIONS.

Spill Releas

e Procedures:USING A SELF-CONTAINED AIR SUPPLY AND PROTECTION AGAINST FROSTBITE, ATTEMPT TO CLOSE VALVES OR REPAIR SOURCE OF LEAK, REMOVE OPEN FLAMES AND PROVIDE ADEQUATE VENTILATION. RELEASE TO ENVIRONMENT MAY BE SUBJECT TO FEDERAL/STATE REPORTING REQUIREMENTS. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN COOL, WELL-VENTILATED AREA AWAY FROM HEAT, FLAME, COMB
USTIBLES. PROTECT CYLINDER/FITTINGS FROM DAMAGE. AVOID CONTACT WITH EYES,SKIN,CLOTHING.
Other Precautions:STORAGE IN SUBSURFACE LOCATIONS SHOULD BE AVOIDED. KEEP VALVE TIGHTLY CLOSED AFTER USE AND WHEN EMPTY. DO NOT PUNCTURE OR DROP CYLINDER OR EXPOSE THEM TO OPEN FLAME OR EXCESSIVE HEAT. USE AUTHORIZED C ONTAINERS ONLY. DO NOT BREATHE GAS.

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

Respiratory Protection:NONE GENERALLY REQUIRED FOR ADEQUATELY VENTED

WORK SITUATIONS. FOR SITUATIONS WHERE CONCENTRATIONS EXCEED 1000 PPM, USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR. AT HIGH CONCENTRATIONS, ADD FULL FACEPIECE. Ventilation: PROVIDE LOCAL EXHAUST AT FILLING ZONES AND WHERE LEAKAGE IS PROBABLE.MECHANICAL(GENERAL) MAY BE ADEQUATE FOR OTHER AREAS Protective Gloves: PROTECTIVE WITH IMPERVIOUS OUTER LAYER. Eye Protection: SAFETY GLASSES FOR NORMAL CONDITIONS. Other Protective Equipment: PROTECTIVE CLOT HING WITH IMPERVIOUS OUTER LAYER AND THERMAL INSULATION UNDERNEATH TO PREVENT FROSTBITE. Work Hygienic Practices: WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health DO NOT VENT TO ATMOSPHERE, ANY RESIDUAL MUST BE RECOVERED.CONTAINS GENETRON 22 AND 115 WHICH HARM THE ENVIRONMENT BY DESTROYING OZONE IN UPPER ATMOSPHERE. DESTRUCTION OF OZONE LAYER CAN LEAD TO INCREA SED ULTRAVIOLET RADIATION WHIC H, WITH EXCESS EXPOSURE TO SUNLIGHT, CAN LEAD TO INCREASE IN SKIN CANCER AND EYE CATERACTS. HCC:G3 Boiling Pt:B.P. Text:-50F,-45C Vapor Pres:137.6 PSIG Vapor Density:3.93 Spec Gravity:1.258 pH:7 Solubility in Water:SLIGHT Appearance and Odor: COLORLESS LIQUIDFIED GAS. FAINT ETHEREAL ODOR AT **HIGHER CONCENTRATIONS..** Percent Volatiles by Volume:100 Stabi lity Indicator/Materials to Avoid:YES

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

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

Hazardous Decomposition Products:HALOGENS, HALOGEN ACIDS, CARBONYL HALIDES, SUCH AS PHOSGENE, CARBON MONOXIDE, CARBON DIOXIDE. Conditions to Avoid Polymerization:WILL NOT OCCUR.

Waste Disposal Methods:DISPOSAL OF GENETRON 502 MAY BE SUBJECT TO FEDERAL, STATE AND LOCAL REGULATIONS. USERS OF THIS PRODUCT SHOULD REVIEW THEIR OPERATIONS IN TERMS OF APPLICABLE FEDERAL, STATE,LOCAL LAWS AND REGULATIONS, THEN CONSULT WITH APPROPRIATE REGULATORY AGENCIES.

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