

GENETRON 502 AZEOTROPE

MSDS Number

BDBHZ

National Stock Number

6830-00-138-2482

Product Name

GENETRON 502 AZEOTROPE

Manufacturer

ALLIED SIGNAL CORP ENGINEERED MATERIALS DIV

Product Identification

Product ID: GENETRON 502 AZEOTROPE

MSDS Date: 05/01/1989

FSC: 6830

NIIN: 00-138-2482

MSDS Number: BDBHZ

Responsible Party

ALLIED-SIGNAL CORP, ENGINEERED MATERIALS DIV

PARK AVE AND COLUMBIA RD

MORRISTOWN, NJ 07960

US

Emergency Phone: 201-455-4157

Info Phone: 201-455-4157

Cage: 0W357

Contractor

PDI GROUND SUPPORT SYSTEMS INC

CLEVELAND, OH 44105

US

216-271-7344

Cage: 0W357

Ingredients

CHLORODIFLUOROMETHANE

CAS: 75-45-6

RTECS: PA6390000

Fraction By Weight: 48.8%

OSHA PEL1000 PPM

ACGIH TLV: 1000PPM; 9192

CHLOROPENTAFLUOROETHANE (SARA III)

CAS: 76-15-3

RTECS: KH7877500

Fraction By Weight: 51.2%

OSHA PEL1000 PPM

ACGIH TLV: 1000 PPM; 9192

Hazards

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 LIGHTHEADEDNESS, 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

First Aid:EYES:FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.SEE DOCTOR. SKIN:WASH WITH WATER.TREAT FOR FROSTBITE. INHALATION:REMOVE VICTIM 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.

Fire Fighting

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE 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.

Accidental Release

Spill Release Procedures:REMOVE PERSONNEL. REMOVE OPEN FLAMES. VENTILATE AREA, ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTION AGAINST FROSTBITE. STOP LEAK IF WIT HOUT RISK. IF NOT ALLOW TO DISSIPATE.

Handling

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 EXPOSE TO OPEN FLAME OR HEAT. USE AUTHORIZED CONTAINER ONLY. FOLLOW LABEL INSTRUCTIONS AND OBSERVE STANDARD SAFETY P RECAUTIONS FOR COMPRESSED GAS CYLINDERS.

Exposure Controls

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.

Protective Gloves:MYLAR OUTSIDE. THERMAL INSULATION INSIDE

Eye 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 PRECAUTIONS: WEAR IMPERVIOUS BOOTS OR SHOES WITH OUTER LAYER OF MYLAR AND THERMAL INSULATION UNDERNEATH.

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

Stability 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

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.

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

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