

## **GENETRON 502 AZEOTROPE**

### **MSDS Number**

BBGZP

### **National Stock Number**

6830-00-144-9952

### **Product Name**

GENETRON 502 AZEOTROPE

### **Manufacturer**

ALLIED SIGNAL INC ENGINEERED MATERIALS SECTOR

### **Product Identification**

Product ID: GENETRON 502 AZEOTROPE

MSDS Date: 05/01/1989

FSC: 6830

NIIN: 00-144-9952

MSDS Number: BBGZP

### **Responsible Party**

ALLIED-SIGNAL INC, ENGINEERED MATERIALS SECTOR

MORRISTOWN, NJ 07962-1139

US

Emergency Phone: 201 455-2000

Info Phone: 201 455-4157

Preparer: NONE

Cage: 0B7T5

### **Contractor**

HONEYWELL INTL INC ENVIRONMENTAL SYSTEMS AND SERVICES

MORRISTOWN, NJ 07962

US

973-455-3922

Cage: 70308

### **Ingredients**

CHLOROPENTAFLUOROETHANE (SARA III)

CAS: 76-15-3

RTECS: KH7877500

Fraction By Weight: 51.2%

OSHA PEL1000 PPM

ACGIH TLV: 1000 PPM; 9394

CHLORODIFLUOROMETHANE

CAS: 75-45-6

RTECS: PA6390000

Fraction By Weight: 48.8%

OSHA PEL1000 PPM

ACGIH TLV: 1000 PPM; 9394

## Hazards

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.  
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

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.

## Fire Fighting

Flash Point:NON-FLAMMABLE  
Extinguishing Media:ANY STANDARD AGENT. CHOOSE THE ONE MOST SUITABLE  
FOR SURROUNDING FIRE (THIS MATERIAL 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.

## Accidental Release

Spill Release 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

Handling and Storage Precautions:STORE IN COOL, WELL-VENTILATED AREA  
AWAY FROM HEAT, FLAME, COMBUSTIBLES. 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

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 CLOTHING WITH IMPERVIOUS OUTER  
LAYER AND THERMAL INSULATION UNDERNEATH TO PREVENT FROSTBITE.  
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING,

DRINKING, OR SMOKING. LAUNDRY 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 INCREASED  
ULTRAVIOLET RADIATION WHICH, WITH EXCESS EXPOSURE TO  
SUNLIGHT, CAN LEAD TO INCREASE IN SKIN CANCER AND EYE CATARACTS.

## Chemical Properties

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 LIQUIDIFIED GAS. FAINT ETHEREAL ODOR AT  
HIGHER CONCENTRATIONS..  
Percent Volatiles by Volume: 100

## Stability

Stability 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.

## Disposal

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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