

REFRIGERANT 502

MATERIAL SAFETY DATA SHEET

12/18/99

MSDS PROVIDED BY:
STOODY INDUSTRIAL AND WELDING SUPPLY, INC.
3316 National Ave., San Diego, Ca. 92113
Phone: (619) 234-6750
MILITARY EMERGENCY RESPONSE NUMBER 1-800-851-8061

ALLIED CHEMICAL ALLIED -- GENETRON 502 AZEOTROPE - MONOCHLORODIFLUOROMETHANE AND MOMOCHLOROPENTAFLUOROETHANE,AZ
MATERIAL SAFETY DATA SHEET
Manufacturer's CAGE: 70308
Part No. Indicator: A
Part Number/Trade Name: GENETRON 502 AZEOTROPE

General Information

Item Name: MONOCHLORODIFLUOROMETHANE AND MOMOCHLOROPENTAFLUOROETHANE,AZ
Company's Name: ALLIED CHEMICAL,ALLIED CORP
Company's Street: COLUMBIA RD AND PARK AVE
Company's P. O. Box: 1087R
Company's City: MORRISTOWN
Company's State: NJ
Company's Country: US
Company's Zip Code: 07960
Company's Emerg Ph #: 201-455-3073
Company's Info Ph #: 201-455-3073
Distributor/Vendor # 1: ALLIED CORP., ALLIED CHEMICAL,CSS DEPT.
Distributor/Vendor # 1 Cage: 1L164
Record No. For Safety Entry: 003
Tot Safety Entries This Stk#: 005
Status: SE
Date MSDS Prepared: 01FEB93
Safety Data Review Date: 10MAY93
Supply Item Manager: CX
MSDS Serial Number: BQQCZ
Specification Number: BB-F-1421
Spec Type, Grade, Class: UNKNOWN
Hazard Characteristic Code: G3
Unit Of Issue: CY
Unit Of Issue Container Qty: 1
Type Of Container: CYLINDER
Net Unit Weight: 125 POUNDS

Ingredients/Identity Information

Proprietary: NO
Ingredient: CHLORODIFLUOROMETHANE
Ingredient Sequence Number: 01
Percent: 48.8
NIOSH (RTECS) Number: PA6390000
CAS Number: 75-45-6
OSHA PEL: 1000 PPM
ACGIH TLV: 1000PPM; 9293
Other Recommended Limit: NONE RECOMMENDED
Proprietary: NO
Ingredient: CHLOROPENTAFLUOROETHANE (SARA III)
Ingredient Sequence Number: 02
Percent: 51.2
NIOSH (RTECS) Number: KH7877500

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CAS Number: 76-15-3
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PPM; 9293
Other Recommended Limit: NONE RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS LIQUIFIED GAS WITH FAINT ETHEREAL ODOR.
Boiling Point: -49F,-45C
Melting Point: UNKNOWN
Vapor Pressure (MM Hg/70 F): 7176 MM HG
Vapor Density (Air=1): 3.9(AIR=1)
Specific Gravity: 1.258 (WATER=1)
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: UNKNOWN
Solubility In Water: NEGLIGIBLE
Percent Volatiles By Volume: 100
Corrosion Rate (IPY): UNKNOWN

Fire and Explosion Hazard Data

Extinguishing Media: MEDIA APPROPRIATE FOR SURROUNDING FIRE.
Special Fire Fighting Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.
Unusual Fire And Expl Hazrds: LIQUIFIED GASES IN CONTACT WITH WATER CAN CAUSE VIOLENT EXPLOSIONS. FIRE EXPOSURE MAY CAUSE FORMATION OF TOXIC VAPORS OR GASES.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HIGH TEMPERATURES. CONTACT WITH INCOMPATIBLE MATERIALS.
Materials To Avoid: HOT REACTIVE METALS.
Hazardous Decomp Products: HALOGENS, HALIDE ACIDS, PHOSGENE, CARBONYL HALIDES AT HIGH TEMPERATURES
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NONE

Health Hazard Data

LD50-LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: ACUTE: INHALATION MAY CAUSE RESPIRATORY IRRITATION AND NARCOSIS AT HIGH CONCENTRATIONS. CONTACT WITH SKIN OR EYES MAY CAUSE FROSTBITE. CHRONIC: NONE KNOWN.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1% IS LISTED AS A CARCINOGEN BY NTP, IARC OR PSHA.
Signs/Symptoms Of Overexp: INHALATION (HIGH CONCENTRATIONS): LOSS OF COORDINATION, INCREASED PULS RATE, DEEP RESPIRATIONS. EYES/SKIN: REDNESS, SWELLING, LOSS OF SENSATION.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: SKIN/EYES: FLUSH WITH WARM WATER FOR AT LEAST 15 MINUTES. COVER AND GET IMMEDIATE MEDICAL ATTENTION. INHALED: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED. GIVE OXYGEN IF

REFRIGERANT 502 MSDS

BREATHING DIFFICULT. SEE DOCTOR. DO NOT GIVE EPINEPHRINE.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: WEAR PROPER PROTECTIVE EQUIPMENT AND CLOTHING. STOP LEAK IF POSSIBLE. IF NOT EVACUATE AREA, ISOLATE AND DENY ENTRY; ALLOW TO DISSIPATE.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions-Handling/Storing: STORE IN A COOL, DRY, WELL-VENTED PLACE AWAY FROM SOURCES OF OPEN FLAME OR HIGH TEMPERATURES.

Other Precautions: PROTECT FROM PHYSICAL DAMAGE. HALOCARBONS IN CLOSED/ CONFINED AREAS REQUIRE WELL-VENTILATED DRAFT, AS THEY DEplete OXYGEN NECESSARY FOR BREATHING.

Control Measures

Respiratory Protection: NONE NORMALLY REQUIRED. FOR UNUSUAL SITUATIONS; WEAR SELF-CONTAINED BREATHING APPARATUS. USE IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation: LOCAL EXHAUST AT FILLING ZONES. MECHANICAL AT STORAGE AREAS.

Protective Gloves: PVA OR NEOPRENE

Eye Protection: SAFETY GLASSES

Other Protective Equipment: WATER SOURCE FOR TREATMENT OF FROSTBITE.

Work Hygienic Practices: WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING.

Transportation Data

Trans Data Review Date: 93130

DOT PSN Code: MPU

DOT Proper Shipping Name: REFRIGERANT GASES, N.O.S.

DOT Class: 2.2

DOT ID Number: UN1078

DOT Label: NONFLAMMABLE GAS

IMO PSN Code: NAP

IMO Proper Shipping Name: REFRIGERANT GAS, N.O.S. o

IMO Regulations Page Number: 2176

IMO UN Number: 1078

IMO UN Class: 2(2.2)

IMO Subsidiary Risk Label: -

IATA PSN Code: VQM

IATA UN ID Number: 1078

IATA Proper Shipping Name: REFRIGERANT GAS, N.O.S. *

IATA UN Class: 2.2

IATA Label: NON-FLAMMABLE GAS

AFI PSN Code: VQM

AFI Prop. Shipping Name: REFRIGERANT GASES, N.O.S.

AFI Class: 2.2

AFI ID Number: UN1078

AFI Basic Pac Ref: 6-6,6-8

N.O.S. Shipping Name: CHLORODIFLUOROMETHANE AND CHLOROPENTAFLUOROETHANE MIXTURE

6830-00-137-7970.

Disposal Data

REFRIGERANT 502 MSDS

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Label Data
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Label Required: YES
Technical Review Date: 10MAY93
Label Status: F
Common Name: GENETRON 502 AZEOTROPE
Chronic Hazard: NO
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: COMPRESSED GAS. ACUTE: INHALATION MAY CAUSE
RESPIRATORY IRRITATION AND NARCOSIS AT HIGH CONCENTRATIONS. CONTACT WITH
SKIN OR EYES MAY CAUSE FROSTBITE. CHRONIC: NONE KNOWN. STORE IN A COOL,
DRY, WELL-VENTED PLACE AWAY FROM SOURCES OF OPEN FLAME OR HIGH
TEMPERATURES. FIRST AID: SKIN/EYES: FLUSH WITH WARM WATER FOR AT LEAST 15
MINUTES. COVER AND GET IMMEDIATE MEDICAL ATTENTION. INHALED: MOVE TO FRESH
AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED. GIVE OXYGEN IF
BREATHING DIFFICULT. SEE DOCTOR. DO NOT GIVE EPINEPHRINE.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: ALLIED CHEMICAL, ALLIED CORP
Label Street: COLUMBIA RD AND PARK AVE
Label P.O. Box: 1087R
Label City: MORRISTOWN
Label State: NJ
Label Zip Code: 07960
Label Country: US
Label Emergency Number: 201-455-3073