

ALLIED CORPORATION, CHEMICAL SECTOR -- GENETRON (R) 12 DICHLORODIFLUOROMETHANE
-- 6830-00-264-9071

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

Product ID:GENETRON (R) 12 DICHLORODIFLUOROMETHANE

MSDS Date:08/01/1985

FSC:6830

NIIN:00-264-9071

MSDS Number: BNCBM

=== Responsible Party ===

Company Name:ALLIED CORPORATION, CHEMICAL SECTOR

Box:1139R

City:MORRISTOWN

State:NJ

ZIP:07960

Country:US

Info Phone Num:20

1-455-4157

Emergency Phone Num:201-455-2000

CAGE:OLYW2

=== Contractor Identification ===

Company Name:ALLIED CORPORATION, CHEMICAL SECTOR

Box:1139R

City:MORRISTOWN

State:NJ

ZIP:07960

Country:US

Phone:201-455-2000

CAGE:OLYW2

Company Name:REFRIGERATION SALES CO INC

Address:38-18 33RD ST

Box:City:LONG ISLAND CITY

State:NY

ZIP:11101-2211

Country:US

Phone:800-221-0603

CAGE:3A676

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

Ingred Name:DICHLORODIFLUOROMETHANE (FLUOROCARBON 12

; REFRIGERANT 12;
PROPELLANT 12)
CAS:75-71-8
RTECS #:PA8200000
Fraction by Wt: 100%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS
Ozone Depleting Chemical:1

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

Health Hazards Acute and Chronic:INHAL: PREDOMINANT HZD IS ASPHYXIA.
MAT'L IS LOW IN TOXICITY AT CONCENTRATIONS AS HIGH AS 4%. WHEN
OXYGEN LEVELS IN AIR ARE REDUCED TO 12-14% SYMPTOMS OF ASPHYXIA
TION

WILL OCCUR. SKIN: CONTACT W/LIQUID MAT'L CAN CAUSE FROSTBITE,
INDICATED BY PALLOR OR REDNESS, LOSS OF SENSATION AND SWELLING.
EYES: SAME AS FOR SKIN. *

Effects of Overexposure:INHALATION: LOSS OF COORDINATION, INCREASED
PULSE RATE, CARDIAC SENSITIZATION AND DEEPER RESPIRATION ARE
POSSIBLE. *NARCOTIC EFFECT REPORTED.
CARDIAC ARRHYTHMIA & MYOCARDIAL DEPRESSION SEEN IN ANIMAL STUDIES.
THIS PRODUCT CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY IF NOT
HANDLE

D PROPERLY.

Medical Cond Aggravated by Exposure:WORKERS WITH CARDIOVASCULAR OR
PULMONARY PROBLEMS SHOULD HAVE MEDICAL EVALUATION BEFORE EXPOSURE.

===== First Aid Measures =====

First Aid:INHAL: REMOVE IMMEDIATELY TO FRESH AIR. IF BREATHING HAS STOPPED,
GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. USE OXYGEN AS
REQUIRED, IF QUALIFIED OPERATOR IS AVAILABLE. DON'T GIVE
EPINEPHRINE (ADRENALIN). SKIN/EYE CONTACT: IMMEDIATELY BATHE FROSTBITE
(DO NOT RUB) WITH LUKEWARM (NOT HOT) WATER. IN ABSENCE OF WATER
COVER WITH SOFT WOOL, ETC. CONTACT DOCTOR FOR ANY LOW TEMPERATURE BURNS
FROM LIQUID CONTACT.

===== Fire Fighting Measures =====

Extinguishing Media:ANY STANDARD AGENT--CHOOSE THE ONE THAT IS
APPROPRIATE FOR TYPE OF FIRE. MATERIAL ITSELF IS NON-FLAMMABLE.
Fire Fighting Procedures:WEAR SELF-CONTAINED NIOSH BREATHING APPARATUS
FOR PROTECTION AGAINST SUFFOCATION & POSSIBLE TOXIC DECOMPOSITION
PRODUCT

S. USE WATER SPRAY TO COOL FIRE EXPOSED CNTNRS.

Unusual Fire/Explosion Hazard:NOT COMBUST, CONTACT W/SOME METALS MAY PRODUCE EXOTHERMIC REACTION/POTENTIALLY EXPLOS COMBINATIONS. SEE HAZARD DECOMP.

===== Accidental Release Measures =====

Spill Release Procedures:USING SELF-CONTAINED AIR SUPPLY & PROTECTION AGAINST FROSTBITE, PERSONNEL SHOULD ATTEMPT TO CLOSE VALVES OR REPAIR SOURCE OF LEAK. IF LARGE QUANTITY IS RELEASED, EVACUATE PERSONNEL AND ALLOW TO DISSIPATE.

===== Handling and Storage =====

Handling and Storage Precautions:AVOID EYE/SKIN/CLOTHING CONTACT. DON'T PUNCTURE/DROP CYLINDERS/EXPOSE TO FLAME/HEAT. USE AUTHORIZED CNTNRS. FOLLOW STD SFTY PRECAUTION FOR COMPRSD GAS

Other Precautions:STORE IN COOL, DRY, VENTED AREA AWAY FROM HEAT/FLAME/COMBUSTIBLES. PROTECT CYLINDER & FITTINGS FROM DAMAGE. AVOID STORAGE IN SUBSURFACE LOCATIONS. FOLLOW OSHA REGULATIONS FOR COMPRESSED GAS & FOR CYLINDER HANDLING.

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

Respiratory Protection:NONE GENERALLY REQUIRED FOR ADEQUATELY VENTED SITUATIONS. FOR UNUSUAL SITUATIONS, WEAR A NIOSH APPROVED, SUPPLIED AIR RESPIRATOR OR A POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS.

Ventilation:PROVIDE LOCAL EXHAUST AT FILLING ZONES/AREA LEAK LIKELY. MECHAN (GEN) VENT FOR OTHER OPERATING ZONES/STORAGE AREAS.

Protective Gloves:IMPERVIOUS GLOVES W/PVA OUTER LAYER **

Eye Protection:CHEM SAFETY GOGGLES IF CONTACT ***

Other Protective Equipment:WEAR IMPERVIOUS SHOES & CLOTHING WHERE LEAKAGE IS PROBABLE. GLOVES, CLOTHING, SHOES SHOULD BE THERMALLY INSULATED.

Work Hygienic Practices:PROVIDE WATER SOURCE FOR FIRST AID TREATMENT (FROSTBITE). ** (NEOPRENE-2ND CHOICE) IF HANDLING/LEAKAGE POSSIBLE.

Supplemental Safety and Health

*** IS REASONABLE PROBABILITY. IN THIS CASE, DON'T WEAR CONTACT LENSES. DON'T CONSIDER MAT'L INER

T. HIGH CONC IN AIR (20X TLV) HAVE BEEN SHOWN TO REDUCE VENT CAPACITY OF LUNGS TEMPORARILY & TO PRODUCE MINOR CARDIAC EFFECTS (INCREASED BY EPINEPHRINE).

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

HCC:G3

Boiling Pt:B.P. Text:-22F,-30C

Melt/Freeze Pt:M.P/F.P Text:-252F,-158C

Vapor Pres:85PSIA@70F

Vapor Density:4.26

Spec Gravity:1.325

Solubility in Water:0.028

Appearance and Odor:COLORLESS LIQUEFIED GAS WITH FAINT ETHEREAL ODOR.

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

Stability Indicator/Materials to Avoid:YES

ALUMINUM (FRESHLY ABRADED SURFACE)(STRONG EXOTHERMIC REACTION),
POWDERED: ALUMINUM, MAGNESIUM, ZINC. CHEM ACTIVE METALS.

Stability Condition to Avoid:LIGHTED CIGARETTES, HOT SPOTS, WELDING.
TEMPERATURES ABOVE 550. DECOMPOSES IN FIRES.

Hazardous Decomposition Products:HALOGENS, HALOGEN ACIDS, AND POSSIBLY
CARBONYL HALIDES, SUCH AS PHOSGENE.

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

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Waste Disposal Methods:DISPOSAL OF WASTE PRODUCT MAY BE SUBJECT TO FED
REGS. REVIEW OPERATIONS, THEN CONSULT W/REGULATORY AGENCIES BEFORE
DISCHARGING/DISPOSING OF WASTE MATERIAL. DISPOSAL BY LICENSED WASTE
DISPOSAL COMPANY MAY BE NECESSARY. EPA HAZARDOUS WASTE #U075.

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