

ALLIED-SIGNAL INC, ENGINEERED MATERIALS SECTOR -- REFRIGERANT 500 -- 6830-01-357-7646  
===== Product Identification =====

Product ID:REFRIGERANT 500

MSDS Date:01/09/1995

FSC:6830

NIIN:01-357-7646

MSDS Number: CGMYZ

=== Responsible Party ===

Company Name:ALLIED-SIGNAL INC, ENGINEERED MATERIALS SECTOR

Address:COLUMBIA RD AND PARK AVE

Box:1087R

City:MORRISTOWN

State:NJ

ZIP:07960

Country:US

Info Phone

Num:800-522-8001

Emergency Phone Num:800-522-8001

CAGE:1L164

=== Contractor Identification ===

Company Name:ALLIED-SIGNAL INC

Box:2332R

City:MORRISTOWN

State:NJ

ZIP:07962-2332

Country:US

Phone:201-455-4414

CAGE:1L164

Company Name:NEW ERA ENVIRONMENTAL

Address:44880 FALCON PLACE SUITE 105

Box:City:STERLING

State:VA

ZIP:20166

Country:US

Phone:703-904-7570

CAGE:0Z1V9

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

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III) (FREON 12)

CAS

:75-71-8  
RTECS #:PA8200000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9394  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS  
Ozone Depleting Chemical:1

Ingred Name:DIFLUOROETHANE (FC-152A)  
CAS:75-37-6  
RTECS #:KI1410000  
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION O  
F HIGH CONCENTRATIONS IS

HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, DEATH.  
INTENTIONAL MISUSE MAY CAUSE DEATH W/O WARNING. VAPORS REDUCE  
OXYGEN CONTENT OF THE AIR (ASPHYXIA TION). LIQUID CONTENT MAY CAUSE  
FROSTBITE.

Explanation of Carcinogenicity:NONE OF THE INGREGREDIENTS PRESENT AT  
0.1% OR GREATER ARE LISTED BY IARC, NTP, OSHA OR ACGIH AS  
CARCINOGENS.

Effects of Overexposure:LIQUID CONTACT:FROSTBITE. INHALATION:HIGH  
CONCENTRATIONS; COUGH, DIFFICULTY  
BREATHING, SHORTNESS OF BREATH,  
IRREGULAR PULSE, PALPITATIONS, INADEQUATE CIRCULATION, ABNORMAL  
KIDNEY FUNCTION.

Medical Cond Aggravated by Exposure:INDIVIDUALS W/PRE-EXISTING DISEASES  
OF CNS, CARDIOVASCULAR SYTEM, LUNGS OR KIDNEYS MAY HAVE INCREASED  
SUSCEPTIBILITY TO TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:IF IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL ATTENTION.  
EYE:FLUSH W/WATER FOR 15 MIN. SKIN:FL

USH AFFECTED AREA W/WATER.

TREAT FOR FROSTBITE BY GENTLY WARMING AFFECTED AREA. INHALED:  
REMOVE FROM EX POSURE. KEEP VICTIM CALM. AID OR RESTORE BREATHING  
AS NEEDED. INGESTED:NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

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

Flash Point:WILL NOT BURN

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS IS REQUIRED  
IF CYLINDERS RUPTURE OR RELEASE U  
NDER FIRE CONDITIONS. USE WATER  
SPRAY/FOG TO COOL CONTAINERS.

Unusual Fire/Explosion Hazard:CYLINDERS ARE EQUIPPED W/TEMP/PRESSURE  
RELIEF DEVICES BUT MAY STILL RUPTURE UNDER FIRE CONDITIONS.  
DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures:VENTILATE AREA-ESPECIALLY LOW PLACE WHERE  
HEAVY VAPORS MIGHT COLLECT. WEAR SELF-CONTAINED BREATHING APPARATUS  
FOR LARGE SPILLS. REMOVE OPEN FLAMES.

Neutralizing Agent:MF  
R GAVE NO INFORMATION ON MSDS.

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

Handling and Storage Precautions:AVOID BREATHING VAPORS. AVOID LIQUID  
CONTACT W/SKIN OR EYES.USE W/SUFFICIENT VENTILATION TO KEEP  
EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS.

Other Precautions:STORE IN CLEAN,DRY AREA. DO NOT HEAT ABOVE 125F.

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

Respiratory Protection:UNDER NORMAL MFG CONDITIONS NO RESPIRATORY  
PROTECTION  
IS REQUIRED WHEN USING THIS PRODUCT.SELF-CONTAINED  
BREATHING APPARATUS (SCBA) IS REQUIRED IF SPILL OCCURS.

Ventilation:NORMAL VENTILATION FOR STDANDARD MFG PROCEDURES. IS  
GENERALLY ADEQUATE. USE LOCAL EXHAUST WHEN LARGE AMOUNTS RELEASED.

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:SELF-CONTAINED BREATHING APPARATUS IS  
REQUIRED IF A SPILL OCCURS

Work Hygienic Practices:MFR GAVE NO INFORMATION ON MSDS.

Supplemental Safety and

Health

VENTILATION:MECHANICAL VENTILATION SHOULD BE USED IN LOW PLACES.

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

HCC:G3

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:-27F,-33C

Vapor Pres:232 PSI

Vapor Density:3.7

Spec Gravity:1.16 G/CC

Evaporation Rate & Reference: