(0C0000-000000- -5590)

DATE OF ISSUE 3/03/1995

SUPERSEDES N/A

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms
N/A

Trade Name & Synonyms
M/M DUST FREE AERO

Chemical Family:
1,1,2-TETRAFLUOROETHANE

Formula Mixture -->

Manufacturer's Name:
CHEMSEARCH DIV. OF NCH CORP.

Address:
BOX 152170
IRVING, TX 75015

Prepared By:
L DEYOUNG/CHEMIST

Product Code Number
5590

Emergency Phone Number
800-424-9300

SECTION II - HAZARDOUS INGREDIENTS
THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV		PEL		STEL	CAS #
1,1,1,2-TETRAFLUOROETHANE	IRRITANT	N/E	1.	N/E	2.	1000 PPM	811-97-2

SECTION III - PHYSICAL DATA

Boiling Point (F):	27	Specific Gravity (H20=1):	1.202
Vapor Pressure (MM HG):	N/E	Color:	WATER-WHITE
Vapor Density (Air=1):	3.0	Odor:	LOW
PH @ 100% :	7-8	Clarity:	CLEAR
% Volatile by Volume:	100	Evaporation Rate (BU A/C=1):	>1
H20 Solubility:	NIL	Viscosity:	NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point	Flammable Limits	LEL	UEL
NON-FLAM / TCC	N/E	N/E	N/E

Extinguishing Media
X <--Foam X <--Alcohol Foam X <--CO2 X <--Dry Chemical X <--Water Spray X <--Other

Special Fire Fighting Procedures:
FIREFIGHTERS SHOULD WEAR A SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE.

Unusual Fire and Explosion Hazards:
USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING.

Aerosol Level (NFPA 30B): 1

NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
2 <--Health 0 <--Flammability 0 <--Instability <--Special

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
NOT ESTABLISHED.

Effects of Overexposure:
-Acute (Short Term Exposure)
EYE CONTACT: VAPOR OR COMPRESSED LIQUID MAY CAUSE IRRITATION SEEN AS ITCHING OR REDNESS AND POSSIBLY TEMPORARY CORNEAL INJURY. SKIN CONTACT: REPEATED OR PROLONGED CONTACT WITH COMPRESSED LIQUID MAY CAUSE FREEZING OF SKIN TISSUES, DEFATTING AND DERMATITIS. INHALATION: AT VAPOR LEVELS ABOVE 1000 PPM MAY CAUSE DIZZINESS, DROWSINESS AND THROAT IRRITATION. AT LEVELS ABOVE 10,000 PPM UNCONSCIOUS- NESS AND DEATH MAY OCCUR. HIGH LEVELS BELOW 10,000 PPM CAN CAUSE BLOOD PRESSURE DEPRESSION, CARDIAC SENSITIZATION AND VENTRICULAR ARRHYTHMIA. INGESTION: MAY CAUSE PSYCHOTROPIC, GASTROINTESTINAL AND CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE OR NAUSEA. DURING INGESTION AND SUBSEQUENT VOMITING PRODUCT MAY BE ASPIRATED INTO THE LUNGS CAUSING CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. DUE TO THE AEROSOL FORM OF THE PRODUCT AND THE READY VAPORIZATION OF THE MATERIAL AS IT IS SPRAYED OUT, INGESTION CAN ONLY OCCUR FROM DELIBERATE, INTENTIONAL MISUSE.

-Chronic (Long Term Exposure)
NO ADDITIONAL EFFECTS ARE KNOWN. TARGET ORGANS:NONE KNOWN. ALTHOUGH THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY, THE PRIMARY ROUTE OF EXPOSURE IS SKIN AND EYE CONTACT. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING SKIN AND RESPIRATORY CONDITIONS SUCH AS DERMATITIS, ASTHMA AND EMPHYSEMA.

Primary Routes of Entry: X <--Inhalation <--Ingestion <--Absorption

Emergency and First Aid Procedures:
-Inhalation:
REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

SECTION V - HEALTH HAZARD DATA (Continued)

-Eye Contact:
RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Skin Contact:
WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:
GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION IF DISCOMFORT OCCURS.

-Notes to Physician:
INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL. HOWEVER, INGESTION OF THIS PRODUCT CAN ONLY OCCUR FROM INTENTIONAL MISUSE.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:
IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

1,1,1,2-TETRAFLUOROETHANE
NO TOXICITY DATA IS AVAILABLE.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable
Conditions to Avoid:
N/A

Incompatibility (Materials to Avoid):
ALKALI METALS, STRONG ACIDS AND STRONG BASES.

Hazardous Decomposition Products:
CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN FLUORIDE.

Hazardous Polymerization: <--May Occur X <--Will Not Occur
Conditions to Avoid:
N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:
DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. IN THE EVENT OF A PUNCTURE, THE COMPRESSED LIQUID WILL VAPORIZE IMMEDIATELY, LEAVING NO SPILL TO BE CLEANED UP. USE A FAN IF NECESSARY TO DISPERSE VAPORS, AND VENTILATE AREA WELL.

Waste Disposal Method(s):
DISPOSE OF CANS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent:
N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:
LOCAL EXHAUST SHOULD BE EMPLOYED AT POINT OF VAPOR EVOLUTION OR HANDLING SITE.

Respiratory Protection:
NONE REQUIRED UNDER NORMAL CONDITIONS OF USE. USE A NIOSH/MSHA APPROVED RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR AN AIR SUPPLIED RESPIRATOR IN CONFINED SPACES, OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS.

Glove Protection:
POLYVINYL ALCOHOL GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY.

Eye Protection:
SAFETY GLASSES IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

Other Protection:
WEAR GENERAL DUTY WORK CLOTHING AND SHOES.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Outdoors--> Heated--> Refrigerated-->
Minimum Temperature: 30 F. Maximum Temperature: 120 F

Precautions to be Taken in Handling and Storing:
STORE IN A COOL, WELL VENTILATED AREA. USE ONLY IN A WELL VENTILATED AREA AND AVOID BREATHING THE VAPOR.

Other Precautions:
KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THIS PRODUCT.

SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper 8 Limit
None		

SECTION XI - REGULATORY INFORMATION (Continued)

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.
This MSDS is not intended for users in the state of California.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1994-1995.
2. OSHA PEL.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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