

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT

MSDS DATE:10/02/06

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hi-Purity

SYNONYMS:

PRODUCT CODES: A144

MANUFACTURER: Chemax Corporation

DIVISION:

ADDRESS: PO BOX 7453
Beaumont, TX 77726

EMERGENCY PHONE: 409/866-4232

CHEMTREC PHONE: 1-800-255-3924

OTHER CALLS: 409/866-4232

FAX PHONE: 409-866-4424

CHEMICAL NAME: mixture

CHEMICAL FAMILY:

CHEMICAL FORMULA:

PRODUCT USE: Solvent applications where quality solvent is required.

PREPARED BY: Bruce Riffel

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

<u>Name</u>	<u>CAS NO.</u>	<u>PEL</u>	<u>TLV</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
1,1 DICHLORO-1-FLUOROETHANE	1717-00-6	100	100		yes
CARBON DIOXIDE	124-38-9	5000 PPM	5000 PPM		
ETHYL ALCOHOL	64-17-5	1000 PPM	1000 PPM		

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Aerosol under pressure do not expose to high temperatures or store in direct sunlight. Pressure can cause splashing of chemical.

ROUTES OF ENTRY: Skin, Eyes, Ingestion, Inhalation

POTENTIAL HEALTH EFFECTS

EYES: Irritation likely

SKIN: Mild irritation likely, may cause localized defatting.

INGESTION: Gastric discomfort

INHALATION: DIZZINESS. PROLONGED EXPOSURE MAY LEAD TO UNCONSCIOUSNESS

ACUTE HEALTH HAZARDS:

CHRONIC HEALTH HAZARDS: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CARCINOGENICITY

OSHA: No

ACGIH: No

NTP: No

IARC: No

OTHER:

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SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Contact physician if irritation persist

SKIN: Wash with soap and water for 15 minutes. If irritation develops seek medical attention.

INGESTION: Give person 2 glasses water if concious and alert. Contact physician, do not induce vomiting unless directed by medical authority.

INHALATION: Move to fresh air. If not breathing administer artificial respiration.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% BY VOLUME) LOWER: N/A

FLASH POINT:

F:

C:

METHOD USED: TCC

AUTOIGNITION TEMPERATURE: N/A

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 1
OTHER:

HMS HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 1
PROTECTION: A

EXTINGUISHING MEDIA: ABC Dry chemical fire extinguisher

SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA in fire situations

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure exposure to high temperatures above 120F can cause bursting.

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use absorbent on spill sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.

SECTION 6 NOTES:

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. EXPOSURE TO TEMPERATURES ABOVE 120 F MAY CAUSE BURSTING.

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Normal, forced ventilation should not be required

RESPIRATORY PROTECTION: If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed.

EYE PROTECTION: safety glasses

SKIN PROTECTION: Impervious gloves such as solvex can be used

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear Liquid

ODOR: mild solvent odor

PHYSICAL STATE: liquid

pH AS SUPPLIED: N/A

pH (Other):

BOILING POINT:

F: 90

C:

MELTING POINT:

F: not tested

C:

FREEZING POINT:

F: not tested

C:

VAPOR PRESSURE (mmHg):

500 @

F: 77

C:

VAPOR DENSITY (AIR = 1):

4 @

F: 77

C:

SPECIFIC GRAVITY (H₂O = 1):

1.23 @

F: 77

C:

EVAPORATION RATE: <1

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: 2%

PERCENT SOLIDS BY WEIGHT: 0

PERCENT VOLATILE: 100 BY WT/ BY VOL @
F: 77
C:

VOLATILE ORGANIC COMPOUNDS (VOC):

24.6 g/l

MOLECULAR WEIGHT: mixture n/a

VISCOSITY:

@

F:

C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY:

CONDITIONS TO AVOID (STABILITY): temperatures above 120F

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: oxides of carbon, HCl, and HF.

HAZARDOUS POLYMERIZATION: none

CONDITIONS TO AVOID (POLYMERIZATION):

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Contains a substance known to cause ozone depletion, 1,1 DICHLORO-1-FLUOROETHANE 1717-00-6

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, State and Federal regulations

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RCRA HAZARD CLASS: Considered Non-hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

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SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: ORM-D
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: Call manufacturer
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

Call manufacturer

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All Chemicals are listed

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): none

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): none

311/312 HAZARD CATEGORIES: immediate

313 REPORTABLE INGREDIENTS:

1,1 DICHLORO-1-FLUOROETHANE 1717-00-6

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: Bruce Riffel

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DISCLAIMER: