

NEW ERA ENVIRONMENTAL -- 134A -- 6830-01-370-6207

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

Product ID:134A

MSDS Date:12/01/1994

FSC:6830

NIIN:01-370-6207

MSDS Number: CFKKP

=== Responsible Party ===

Company Name:NEW ERA ENVIRONMENTAL

Address:44880 FALCON PLACE SUITE 105

City:STERLING

State:VA

ZIP:20166

Country:US

Info Phone Num:703-904-7570

Emergency Phone Num:800-237-5701

CAGE:0Z1V9

=== Contractor Identification ===

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:ETHANE, 1,1,1,2-TETRAFLUORO

CAS:811-97-2

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:INHALATION-RAT-4/HR LC50=567000 PPM

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IAR

C:NO OSHA:NO

Health Hazards Acute and Chronic:OVEREXPOSURE BY INHALATION TO VERY HIGH CONCENTRATIONS MAY CAUSE TEMPORARY ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY WITH IRREGULAR PULSE, PALPITATIONS, OR INADEQUATE CIRCULATION. INTENTIONAL MISUSE OR DELIBERATE INHALATION MAY CAUSE DEATH WITHOUT WARNING. SKIN CONTACT WITH THE LIQUID MAY CAUSE FROSTBITE.

Explanation of Carcinogenicity:MANUFACTURER STATES THAT NONE OF THE COMPONENTS IN THIS MATERIAL IS LISTED AS CARCINOGENIC

Effects of Overexposure:INHALED-NAUSEA, HEADACHE, WEAKNESS, DIZZINESS, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS, COUGH, DISCOMFORT, SHORTNESS OF BREATH, IRREGULAR PULSE, HEART PALPITATIONS. FROSTBITE: WHITE TO RED SKIN, PAIN, BLISTERS.

Medical Condition Aggravated by Exposure:CENTRAL NERVOUS SYSTEM DISEASES, CARDIOVASCULAR SYSTEM DISEASES.

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

First Aid:INHALATION: IMMEDIATELY REMOVE TO FRESH AIR. IF BREATHING IS

DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN. SKIN CONTACT: FLUSH WITH WATER. TREAT FOR FROSTBITE IF NECESSARY. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. CALL A PHYSICIAN. INGESTION: NOT CONSIDERED AS A POTENTIAL ROUTE OF EXPOSURE. NOTE TO DOCTOR: USE SPECIAL CAUTION WITH CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE.

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

Flash Point Method:TOC

Flash Point:WILL NOT BURN

Autoignition Temp:Autoignition

Temp Text:1382F

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures:USE WATER SPRAY TO COOL CONTAINERS. SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:PRODUCT IS NOT FLAMMABLE AT AMBIENT TEMPERATURES AND PRESSURES. HOWEVER, IT CAN BE COMBUSTIBLE AT VERY HIGH CONCENTRATIONS (>60%/VOLUME) AND >177F.

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

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Spill Release Procedures:REVIEW FIRE AND EXPLOSION HAZARDS & SAFETY PRECAUTIONS BEFORE CLEANING-UP. VENTILATE AREA, ESPECIALLY LOW OR ENCLOSED PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF- CONTAINED B REATHING APPARATUS IF LARGE SPILL OR LEAK OCCURS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM

INCOMPATIBLE MATERIALS. DO NOT HEAT ABOVE 125F (52C).

Other Precautions:AVOID BREATHING VAPORS. AVOID CONTACT WITH SKIN WITH LIQUID OR COLD VAPORS. USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS. DO NOT MIX WITH AIR OR USE WITH AIR ABOVE ATMOSPHERIC PRESSURE.

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

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS NORMALLY REQUIRED. UNDER EMERGENCY

CONDITIONS; USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS. USE IAW 29 CFR 1910.134 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:NORMAL VENTILATION FOR STANDARD MANUFACTURING PROCEDURES IS GENERALLY ADEQUATE. LOCAL EXHAUST USED FOR LARGE RELEASES.

Protective Gloves:IMPERVIOUS

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

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

SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

DENSITY=1.21 G/CC AT 25 C (77F)[LIQUID]. CONTACT WITH CHLORINE OR OTHER STRONG OXIDIZING AGENTS SHOULD ALSO BE AVOIDED. THIS MSDS WAS GENERATED BY HMIS FOR RECOVERED R-134A PREPARED AT DDRV DEPOT.

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

HCC:G3

Boiling Pt:B.P. Text:-15F,-26C

Vapor Pres:4963 MM HG

Vapor Density:3.6

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR, COLORLESS

SS GAS; SLIGHT ETHEREAL ODOR  
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES;  
INCOMPATIBLE MATERIALS.

Hazardous Decomposition Products:HYDROFLUORIC ACID, POSSIBLY CARBONYL  
FLUORIDE.

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

Waste Disposal Methods:

COMPLY WITH FEDERAL, STATE, AND LOCAL

REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED WASTE  
DISPOSAL FACILITY.

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