

DONG YUE

REFRIGERANT 134A

MSDS Safety Information

FSC: 6830

MSDS Date: 08/16/2004

MSDS Num: BVBWY

LIIN: 00N047805

Product ID: REFRIGERANT 134A

MFN: 01

Responsible Party

Cage: 25827

Name:

Address: Tangshan Town ,Huantai County

City:Zibo City,Shandong Province,China

Info Phone Number: 0086-533-8220546

Emergency Phone Number: 0086-533-8220545

Preparer's Name: Mr Jason Chen

Published: Y

Contractor Summary

Cage: 25827

Name: DONGYUE

Address: Tangshan Town ,Huantai County

City:Zibo City,Shandong Province,China

Phone Number: 0086-533-8220546

Cage: 18873

Name: Shandong Dongyue Chemical CO.,LTD

Address: Tangshan Town ,Huantai County

City:Zibo City,Shandong Province,China

Phone Number:0086-533-8220546

Ingredients

Name: ING 7:CIRCULATION. CONT W/LIQ MAY CAUSE FROSTBITE. POLYALKYLENE GLYCOL OILS MAY CAUSE EYE & SKIN IRRITATION.

Name: FIRST AID PROC:MD. NOTES TO MD:BECAUSE OF POSS DISTURBS OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS, SUCH AS

Name: ING 9:EPINEPHRINE, SHOULD BE CONSIDERED ONLY AS A LAST RESORT IN LIFE-THREATENING EMERGENCIES.

Name: OTHER PREC:CAUSE FORMATION OF CHLORIDES, FLUORIDES OR PHOSGENE (FP N).

Name: VENT:SHOULD BE USED IN LOW PLACES.

Cas: 811-97-2

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

% Wt: 100

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Name: MAY CONTAIN ONE OF INGREDIENTS 3 - 5.

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Cas: 9038-95-3

RTECS #: RR0550000

Name: OXIRANE METHYL-, POLYMER W/OXIRANE, MONOBUTYL ESTER; (POLYALKYLENE GLYCOL OIL)

% Wt: 0-5

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Name: POLYOL ESTER PLUS PHOSPHATE ESTER OIL

% Wt: 0-5

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Cas: 9003-13-8

RTECS #: LL3130000

Name: FLUID-AP; (POLYALKYLENE GLYCOL OIL)

% Wt: 0-5

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Name: SUPDAT:PRODUCE CARBON MONOXIDE & CARBON DIOXIDE UPON COMBUSTION.

Name: EFTS OF OVEREXP:CAUSE TEMPORARY ALTERATION OF HEART'S ELEC ACTIVITY
W/IRREG PULSE, PALPITATIONS/INADEQ
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Health Hazards Data
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LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: INHAL OF HIGH CONCS OF VAP IS HARMFUL & MAY CAUSE HEART IRREGS, UNCON/DEATH. INTENTIONAL MISUSE/DELIB INHAL MAY CAUSE DEATH W/OUT WARNING. VAP REDUCES OXYGEN AVAIL FOR BRTHG & IS HVR/AIR. LIQ CONT CAN CAUSE FROSTBITE. ANIMAL DATA:LETHARGY & RAPID RESP WERE OBSERVED AT VAP CONC OF 205,000 PPM & PULM (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT

Signs And Symptoms Of Overexposure: HLTH HAZ:CONGESTION, EDEMA & CNS EFTS OCCURRED AT VAP CONC OF 750,000 PPM. CARDIAC SENSIT OCCURRED IN DOGS AT 75,000 PPM FROM ACTION OF EXOGENOUS EPINEPHRINE. EMBRYOTOX ACTIVITY HAS BEEN OBSERVED IN SOME ANIMAL TESTS BUT ONLY AT MATERNALLYTOX DOSE LEVELS. HUMAN HLTH EFTS:OVEREXP BY INHAL TO VERY HIGH CONCS MAY

Medical Cond Aggravated By Exposure: INDIVIDUALS W/PREEXISTING DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO TOXICITY OF EXCESSIVE EXPOSURE.

First Aid: INGEST:CALL MD IMMED (FP N). INHAL:IMMED REMOVE TO FRESH AIR. KEEP PERS CALM. IF NOT BRTHG, GIVE ARTF RESP. IF BRTHG IS DFCLT, GIVE OXYGEN. CALL MD. SKIN:IMMED FLUSH W/PLENTY OF WATER FOR AT LST 15 MI NS. REMOVE CONTAM CLTHG & SHOES. CALL MD. TREAT FOR FROSTBITE IF NEC BY GENTLY WARMING AFFECTED AREA. WASH CONTAM CLTHG BEFORE REUSE. EYE:IMMED FLUSH W/PLENTY OF WATER FOR AT LST 15 MINS. CALL

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Handling and Disposal
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Spill Release Procedures: REVIEW FIRE & EXPLO HAZS & SFTY PRECS BEFORE PROCEEDING W/CLEAN UP. USE APPROP PERSONAL PROT EQUIP DURING CLEAN UP. VENTILATE AREA-ESP LOW PLACES WHERE HEAVY VAPS MIGHT COLLECT. REMOVE OPEN FLAMES. US E NIOSH/MSHA APPRVD SCBA IF LG SPILL/LEAK OCCURS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: CONTAMINATED HFC-134A CAN BE RECOVERED BY DISTILLATION OR REMOVED TO A PERMITTED WASTE DISPOSAL FACILITY. COMPLY W/FEDERAL, STATE & LOCAL REGULATIONS.

Handling And Storage Precautions: STORE IN CLEAN, DRY AREA. DO NOT HEAT >125F. USE W/SUFFICIENT VENT TO KEEP EMPLOYEE EXPOS BELOW REC LIMS. SEE FIRE & EXPLOSION DATA SECTION.

Other Precautions: USED REFRIGERANT 134A SHOULD NOT BE MIXED W/AIR FOR LEAK TESTING/USED W/AIR FOR ANY OTHER PURPOSE ABOVE ATM PRESS. NO SMOKING IN AREA OF USE. DO NOT USE IN GEN VICIN OF ARC WELDING, OPEN FLAMES/HOT SU RFS. HEAT &/OR UV RADIA MAY

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Fire and Explosion Hazard Information

Flash Point Method: TOC

Flash Point Text: WILL NOT BURN

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures: USE NIOSH/MSHA APPROVED PRESSURE DEMAND SCBA & FULL PROTECTIVE EQUIPMENT (FP N). COOL CYLINDERS W/WATER SPRAY.

Unusual Fire/Explosion Hazard: CYLS MAY RUPTURE UNDER FIRE CNDTNS. DECOMP MAY OCCUR. ING 1 IS NOT FLAMM AT AMBIENT TEMPS & ATM PRESS, BUT HAS BEEN SHOWN IN TESTS TO BE COMBUST AT (SUPP DATA)

Control Measures

Respiratory Protection: UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. NIOSH/MSHA APPROVED SCBA IS REQUIRED IF A LARGE RELEASE OCCURS.

Ventilation: NORMAL VENT FOR STD MFG PROCS IS GENERALLY ADEQ. LOC EXHST SHOULD BE USED WHEN LG AMTS ARE RELS. MECH VENT

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKER GOGGLES (FP N).

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health: EXPLD HAZ:PRESS AS LOW AS 5.5 PSIG (@ 177C) WHEN MIXED W/AIR AT CONCS OF GENERALLY >60 VOL % AIR. AT LOWER TEMPS, HIGHER PRESS ARE REQD FOR COMBUSTIBILITY. THERMAL DECOMP PRODS MAY INCL FLUORIDES, CHL ORIDES & PHOSGENE (FP N). HAZ DECOMP PROD:HYDROFLUORIC ACID-POSSIBLY CARBONYL FLUORIDE. OILS, IF PRESENT, MAY

Physical/Chemical Properties

PH: NEUT

Appearance and Odor: COLORLESS TO SLIGHTLY YELLOW LIQUEFIED GAS; SLIGHT ETHEREAL ODOR.

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: AVOID OPEN FLAMES & HIGH TEMPERATURES.

Materials To Avoid: INCOMPATIBLE W/ALKALI OR ALKALINE EARTH METALS - POWDERED AL, ZN, BE, ETC.

Hazardous Decomposition Products: DECOMP PRODS ARE HAZ. HFC-134A CAN BE DECOMPOSED BY HIGH TEMPS (OPEN FLAMES, GLOWING METALS SURFS, ETC) FORMING (SUPDAT)

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

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Toxicological Information

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Ecological Information

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MSDS Transport Information

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Regulatory Information

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Other Information

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HAZCOM Label

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Product ID: REFRIGERANT 134A

Cage: 25827

Company Name: Shandong Dongyue Chemical CO.,LTD

Street: Tangshan Town

City: Zibo City, Shandong Province, China

Zipcode: 256400

Health Emergency Phone: 0086-533-8220546

Origination Code: G

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: WARNING

Respiratory Protection IND: YES

Health Hazard: Moderate

Contact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: ACUTE: INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS
HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH.

INTENTIONAL MISUSE OR DELIBERATE INHALATION MAY CAUSE DEATH W/OUT WARNING.

VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING& IS HEAVIER THAN AIR.

LIQUID CONTACT CAN CAUSE FROSTBITE. OVEREXPOSURE BY INHALATION TO VERY HIGH
CONCENTRATIONS MAY CAUSE TEMPORARY ALTERATION OF HEART'S ELECTRIC ACTIVITY
W/IRREGULAR PULSE, PALPITATIONS OR INADEQUATE CIRCULATION. POLYALKYLENE

GLYCOL OILS MAY CAUSE EYE & SKIN IRRITATION. CHRONIC:NONE LISTED BY
MANUFACTURER.

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