ICI AMERICAS INC;STUART PHARACEUTICALS,DIV -- ARKLONE P -- 6850-00-319-0834 Product ID:ARKLONE P MSDS Date: 10/02/1987 FSC:6850 NIIN:00-319-0834 MSDS Number: BDWSB === Responsible Party === Company Name: ICI AMERICAS INC; STUART PHARACEUTICALS, DIV Address: CONCORD PIKE AND MURRY ROAD Box:2376 City:WILMINGTON State:DE ZIP:19897 Country:US Info Phone Num:302-275-3000 Emergency Phone Num:302-575-3000 800-424-9300(CHEMTREC) CAGE:1399 2 === Contractor Identification === Company Name: ZENECA INC. ZENECA PHARMACEUTICALS GROUP (FORMERLY ICI Address:1800 CONCORD PIKE Box:City:WILMINGTON State:DE ZIP:19897 Country:US Phone:302-886-3000 CAGE:13992 ======= Composition/Information on Ingredients ======== Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA III) CAS:76-13-1

RTECS #:KJ4000000 Fraction by Wt: 99.9%

OSHA PEL:1000PPM/1250STEL ACGIH TLV:1000PPM/1250STEL9192

Ozone Depleting Chemical

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=========== Hazards Identification =============
LD50 LC50 Mixture:ORAL LD50 (RAT) IS 43G/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYES:MAY CAUSE SLIGHT IRRITATION.SKIN:MAY CAUSE IRRITATION.INGEST:MAY CAUSE GI TRACT IRRITATION.INHAL:MISTS MAY CAUSE RESPIRATORY IRRITATION AND CARDIAC SENSITIZATION(IRREGULAR HEARTBEAT). Explanation of Carcinogenicity:THERE A RE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA. Effects of Overexposure:OVEREXPOSURE PROGRESSES FROM IRRITATION TO WEAKNESS,DEPRESSION, "SPINNING HEAD",DISORIENTATION,UNCOORDINATION,HEADACHE,DROWSINESS,NAUSEA,LOSS OF SENSATION,UNCONSCIOUSNESS,POSSIBLE ASPHYXIATION. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING HEART AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.
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First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.GET MEDICAL ASSISTANCE FOR REDNESS OR BURNING SKIN.EYES:FLUSH WITH WATER FOR 15 MINUTES.GET MEDICA ASSISTANCE FOR REDNESS OR BURNING.INHAL:RE MOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION(MOUTH-TO-MOUTH) IF NEEDED.INGEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,GIVE 1-2 GLASSES OF WATER.
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Flash Point:NONE Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE FOLIPMENT

Unusual Fire/Explosion Hazard: VAPORS ARE HEAVY AND MAY CAUSE SUFFOCATION.FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

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

Spill Release Procedures: ELIMINATE SOURCES OF IGNITION. USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT. VENTILATE AREA.S

OAK UP WITH A

NON-COMBUSTIBLE INERT ABSORBANT(CLAY,SAND);PLACE IN PROPER CONTAINER FOR DISPOSAL.

Neutralizing Agent: NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM HEAT,SPARKS,FLAMES AND INCOMPATIBLE MATERIALS.

Other Precautions:EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUE;DISPOSE OF PROPERLY.VENTILATE LOW LYIN G AREAS:VAPORS TEND

TO ACCUMULATE THERE AND POSE A SUFFOCATION HAZARD.

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

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR A NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS,DEPENDING ON THE AIRBORN CONCENTRA TION.

Ventilation:LOCAL VENTILATION AT THE WORKSITE(ESP.LOW LYING AREAS);MECHANICAL(GENERAL) VENTILATION TO MAINTAI N TLV/PEL.

Protective Gloves: IMPERVIOUS

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA

Supplemental Safety and Health

NOTE TO PHYSICIAN: DUE TO CARDIAC SENSITIZATION, DO NOT GIVE ADRENALINE( OR SIMILAR SYMPATHOMIMETIC DRUGS). DO NOT GIVE EPIN

**EPHRINE.DO NOT** 

ALLOW PATIENT TO EXERCISE VIGOROUSLY WITHIN 24 HOURS OF A POTEN TIALLY TOXIC EXPOSURE.FREEZE BURNS CAN DEVELOP FROM THE LIQUID FORM OF THIS MATERIAL.

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

HCC:T6

Boiling Pt:B.P. Text:117.7F/48C

Decomp Temp:Decomp Text:1300F,704C

Vapor Pres:270

Vapor Density:6.75@117F

Spec Gravity: 1.6

Solubility in Water: NEGLIGIBLE

Appearance and Odor:LIQUID;COLORLESS;FAINT ETHEREAR ODOR

Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES MAY REACT VIOLENTLY W SODIUM, POTASSIUM, BARIUM.REACTS WITH FINELY
DIVIDED AL,ZN,MG(ESP. AT HIGH TEMPERATURES). Stability Condition to Avoid:HIGH HEAT. Hazardous Decomposition Products:HALOGEN,HALOGEN ACIDS,TRACE AMOUNT OF CARBONYL HALIDE.
======= Disposal Considerations ==========

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.RCRA CODE IS F002(SPENT HALOGENATED SOLVENTS).

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