

3M PHARMACEUTICAL, SUB OF MINNESOTA MINING AND MFG -- MEDIHALER-ISO (PRESCRIPTION DRUG),NDC 00089-0785-21 -- 6505-00-023-6481

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

Product ID:MEDIHALER-ISO (PRESCRIPTION DRUG),NDC 00089-0785-21

MSDS Date:02/17/1995

FSC:6505

NIIN:00-023-6481

MSDS Number: BYFFP

=== Responsible Party ===

Company Name:3M PHARMACEUTICAL, SUB OF MINNESOTA MINING AND MFG

Address:19901 NORDHO

FF ST

City:NORTHRIDGE

State:CA

ZIP:91328-0001

Country:US

Info Phone Num:818-709-3076/612-733-1110

Emergency Phone Num:818-709-3076/612-733-1110

CAGE:04515

=== Contractor Identification ===

Company Name:MINNESOTA MINING AND MFG CO 3M PHARMACEUTICAL

Address:19901 NORDHOFF ST

Box:City:NORTHRIDGE

State:CA

ZIP:91324-3298

Country:US

Phone:818-709-3076

CAGE:04515

===== Composition/Information on Ingredients =====

Ingred Name:DICHLORODIFLUOROMETHANE (SARA 313) (CERCLA)

CAS:75-71-8

RT

ECS #:PA8200000

Fraction by Wt: 50.0%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9495

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ozone Depleting Chemical:1

Ingred Name:TRICHLOROFLUOROMETHANE (CFC-11) (SARA 313) (CERCLA)

CAS:75-69-4

RTECS #:PB6125000

Fraction by Wt: 24.8%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:C, 1000 PPM; 9495

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ozone Depleting Chemical:1

Ingred Name:DICHLOROTETRAFLUOROETHANE (SARA 313)

/PROPELLANT 114
CAS:76-14-2
RTECS #:KI1101000
Fraction by Wt: 24.8%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9495
Ozone Depleting Chemical:1

Ingred Name:ISOPROTERENOL SULFATE
CAS:299-95-6
RTECS #:DO2273000
Fraction by Wt: 0.2%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV 1000 PPM
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:
NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, CNS,
RESPIRATORY TRACT. ACUTE- EYE:MAY CAUSE IRRITATION. FROSTBITE MAY
RESULT IF SPRAYED AT CLOSE RANGE. SKIN:MAY CAUSE IRRITATION,
FROSTBITE. INHALE:MAY HAVE CNS & CARDIAC E FFECTS, CAUSING
DIZZINESS. ORAL:MAY CAUSE DIGESTIVE SYSTEM IRRITATION & CNS
IMPAIRMENT. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYE AND/OR SKIN FROSTBITE, SKIN IRRITATION,
DIZZINESS, NERVOUSNESS, HEADACHE,
DEPRESSION, ANXIETY, DRY MOUTH,
CONFUSION, WEAKNESS, FAINTING, HYPERTENSION OR HYPOTENSION,
PALPITATIONS, CARDIAC ARRHYTHMIA, ABDOMINAL CRAMPS/PAIN, LOSS OF
APPETITE, DIARRHEA, NAUSEA, VOMITING

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH CARDIAC ARRHYTHMIA
OR RESPIRATORY DISORDERS MAY BE AT INCREASED RISK IN SEVERE
EXPOSURES.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO

FRESH

AIR. PROVIDE CPR/OXYGEN IF NEEDED. CALL A PHYSICIAN. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. CALL A PHYSICIAN. SKIN:WASH WITH SOAP & WATER. ORAL:DO NOT INDUCEVOMITING. IF CONSCIOUS, RINSE MOUTH WITH WATER. SEEK IMMEDIATE MEDICAL ATTENTION. IF SPONTANEOUS VOMITING OCCURS, MONITOR FOR BREATHING DIFFICULTY.

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

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL

FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CYLINDERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:MAY FORM CORROSIVE AND TOXIC HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND/OR PHOSGENE. AEROSOL CAN MAY EXPLODE.

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

Spill Release Procedures:IF AEROSOL CANS ARE RUPTURED, EXTINGUISH ALL IGNITIO

N SOURCES. WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA.

CONTAIN SPILL AND COVER WITH ABSORBENT MATERIAL SUCH AS SAND.

COLLECT SPILLED MATERIAL AND PLACE IN AN APPROVED CLOSED CONTAINER AND SEAL.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN WELL-VENTILATED, DRY, COOL (BELOW 125F) PLACE AWAY FROM OPEN FLAMES AND HOT SURFACES. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:AVOID I

NHALATION EXCEPT FOR THERAPEUTIC APPLICATION.

AVOID EYE OR SKIN CONTACT. WASH WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING OR DRINKING. USE WITH ADEQUATE VENTILATION TO AVOID VAPOR BUIL UP.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF TLV EXCEEDED, WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR, OPERATED IN POSITIVE PRESSURE MODE.

Ventilation:USE GENERAL OR LO

CAL EXHAUST VENTILATION TO MEET TLV
REQUIREMENTS.

Protective Gloves:CLOTH-LINED RUBBER GLOVES

Eye Protection:SAFETY GOGGLES/FACE SHIELD

Other Protective Equipment:EYEBATH, SAFETY SHOWER, PROTECTIVE CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES.

Supplemental Safety and Health

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

HCC:V2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=-30.C, -22.F

Vapor Pres:4379 @ 70F

Vapor

Density:6.3

Viscosity:NOT RELEVANT

Solubility in Water:LIMITED

Appearance and Odor:WHITE AEROSOL SUSPENSION IN PRESSURIZED CONTAINERS

Percent Volatiles by Volume:98

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:OPEN FLAME, EXTREMELY HOT/GLOWING METAL
SURFACES, HIGH TEMPERATURES

Hazardous Decomposition Products:MAY FORM HYDROGEN FLUORIDE, HYDROGEN
CHLORIDE AND POSSIBLY CARBONYLFLUORIDE.

=====

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

Waste Disposal Methods:INCINERATE ABSORBED AND PARTIALLY FULL CANS
AFTER MIXING WITH FLAMMABLE MATERIAL IN AN APPROVED FACILITY. FOR
DISCHARGE OR DISPOSING OF MATERIAL, CONSULT LOCAL, STATE AND
FEDERAL AUTHORITIES. DO NOT W ENT TO ATMOSPHERE. RECYLCE PRODUCT IF
POSSIBLE.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department
of De

fense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.