

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

Product ID:BLENOXANE

MSDS Date:03/01/1990

FSC:6505

NIIN:01-060-4278

MSDS Number: BHCPF

=== Responsible Party ===

Company Name:BRISTOL-MYERS US PHARMACEUTICAL & NUTRITIONAL GP.

Address:2404 PENNSYLVANIA AVENUE

City:EVANSVILLE

State:IN

ZIP:47721-0001

Country:US

Info Phone Num:812-429-5000

Emergency Phone Num:812-429-5140

CAGE:29398

=== Contractor

Identification ===

Company Name:BRISTOL-MYERS US PHARMACEUTICAL & NUTRITIONAL GP.

Address:2400 W LLOYD EXPY

Box:City:EVANSVILLE

State:IN

ZIP:47721-0001

Country:US

Phone:812-429-5644

CAGE:29398

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

Ingred Name:BLEOMYCIN

CAS:11056-06-7

RTECS #:EC5988000

Ingred Name:BLEOMYCIN

CAS:9041-93-4

RTECS #:EC5991990

Ingred Name:MINOR COMPONENTS

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

LD50 LC50 Mixture:ORAL L

D50 (RAT) IS >200 MG/KG

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:INGESTION,CYTOTOXIC

AGENT.IMPORTANT DOSE-DEPENDENT EFFECTS FOLLOWING INJECTION INCLUDE LUNG & SKIN/MUCOUS MEMBRANE CHANGES.TOXIC IF ABSORBED THROUGH SKIN,WITH SIGNIFICANT DEGREE OF ABSORPTION IN WORKERS WITH SKIN DISEASES;MAY CAUSE RASH.EYE CONTACT MAY CAUSE CONJUNCTIVITIS.CHRONIC: POTENTIAL CARCINOGEN.

Exp

lanation of Carcinogenicity:NO CARCINOGENICITY STUDIES HAVE BEEN

COMPLETED. MUTAGENIC POTENTIAL HAS BEEN DOCUMENTED IN ANIMALS.

Effects of Overexposure:NON-DOSE DEPENDENT EFFECTS FOLLOWING INJECTION INCLUDE FEVER, CHILLS, HYPOTENSION AND WHEEZING. EYE AND SKIN IRRITATION.

Medical Cond Aggravated by Exposure:STAFF MEMBERS WHO ARE PREGNANT OR BREAST- FEEDING SHOULD BE TRANSFERRED TO OTHER DUTIES THAT DO NOT INVOLVE HANDLING BLENOXANE, IF THEY SO REQUEST.

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= First Aid Measures =====

First Aid:INHALATION: GET MEDICAL ATTENTION IF APPROPRIATE.

EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION: GET IMMEDIATE MEDICAL ATTENTION IF APPROPRIATE.

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

Autoignition Temp:Auto

ignition Temp Text:NONE

Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.

Fire Fighting Procedures:NONE; MATERIAL IS IN GLASS VIALS WHICH WILL NOT BURN.

Unusual Fire/Explosion Hazard:AVOID INHALATION AND SKIN CONTACT, DO NOT GET IN EYES.

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

Spill Release Procedures:WIPE LIQUIDS WITH ABSORBENT GAUZE PADS. WIPE SOLIDS WITH WET ABSORBENT GAUZE. CLEAN, USING BLEACH OR DETERGENT AND WATER.

N

neutralizing Agent:52 FOLD MOLAR EXCESS OF 5.25% NAOCL, OR A 3 FOLD
MOLAR EXCESS OF 1% KMNO4.

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

Handling and Storage Precautions:SHOULD BE STORED UNDER REFRIGERATION
(2 TO 8C)

Other Precautions:FEDERAL LAW PROHIBITS DISPENSING WITHOUT
PRESCRIPTION. SEE PACKAGE INSERT FOR RECOMMENDED MEDICAL USE. SEE
OSHA INSTRUCTION PUB. 8-1.1 FOR ADDITIONAL WORK PRACTICE GUIDELINES
FOR HANDLING THIS MATERIA L.

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Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE
OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED
AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134 AND
MANUFACTURER'S RECO MMENDATIONS.

Ventilation:BIOLOGICAL SAFETY CABINET FOR PREPARATION, OR AS DETERMINED
APPROPRIATE BY INDUSTRIAL HYGIENIST.

Protective Gloves:DISPOSABLE SURGICAL LATEX GLOVES

Eye Protection:PLASTIC FACE SHIE
LD OR SPLASH GOGGLES

Other Protective Equipment:PROTECTIVE DISPOSABLE GOWN OF LOW
PERMEABILITY FABRIC WITH CLOSED FRONT, LONG SLEEVES AND ELASTIC
CUFFS.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. DO
NOT EAT, DRINK, SMOKE, CHEW GUM, APPLY COSMETICS OR STORE FOOD IN
WORK AREA

Supplemental Safety and Health

PRE-EMPLOYMENT PHYSICAL EXAMINATIONAND HISTORY FOR ALL EMPLOYEES WITH
POTENTIAL EXPOSURE TO BLENOXANE IS RECOMMENDED. A COMPLETE BLOOD
COUNT, INCLU

DING DIFFERENTIAL, SHOULD BE TAKEN TO PROVIDE A BASEL
INE. PERIODIC FOLLOW-UP EXAMINATIONS SHOULD BE DONE AT LEAST
ANNUALLY. KEEP A PERMANENT REGISTRY OF ALL STAFF INVOLVED.

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

HCC:K2

Melt/Freeze Pt:M.P/F.P Text: 160F, 71C

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS TO YELLOWISH POWDER (MAY TURN BLUE). NO
ODOR

Percent Volatiles by Volume:0

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

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Stability Indicator/Materials to Avoid: YES
NO KNOWN HAZARDOUS INCOMPATIBILITIES.
Stability Condition to Avoid: WHEN STORED IN ORIGINAL CONTAINER, DRUG IS
STABLE TO THE EXPIRATION DATE INDICATED ON THE LABEL OF THE
PRODUCT.
Hazardous Decomposition Products: NONE KNOWN; BUT ASSUME A CARCINOGENIC
POTENTIAL.

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

Waste Disposal Methods: DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL
APPLICABLE FEDERAL, STATE AND LO
CAL LAWS AND REGULATIONS.
INCINERATION IS RECOMMENDED.

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