

BURROUGHS WELLCOME CO. -- BUSULFAN -- 6505-00-229-1770

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Product Identification  
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Product ID:BUSULFAN

MSDS Date:08/24/1988

FSC:6505

NIIN:00-229-1770

MSDS Number: BHHXF

=== Responsible Party ===

Company Name:BURROUGHS WELLCOME CO.

Address:3030 CORNWALLIS ROAD

City:RESEARCH TRIANGLE PARK

State:NC

ZIP:27709-4416

Country:US

Info Phone Num:919-248-3000

Emergency Phone Num:919-248-3000

CAGE:5P2

91

=== Contractor Identification ===

Company Name:BURROUGHS WELLCOME CO NATIONAL ACCOUNTS DIV

Address:3030 CORNWALLIS RD

Box:City:RESEARCH TRIANGLE PARK

State:NC

ZIP:27709-4416

Country:US

CAGE:5P291

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Composition/Information on Ingredients  
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Ingred Name:BUSULFAN (1,4-BUTANEDIOL DIMETHYLSULFONATE OR MYLERAN)  
(2.000 MG BUSULFAN ACTIVE INGREDIENT)

CAS:55-98-1

RTECS #:EK1750000

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Hazards Identification  
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LD50 LC50 Mixture:L

D50 (ORAL MOUSE) IS 120 MG/KG

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES

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

Health Hazards Acute and Chronic: HAS POWERFUL CYTOTOXIC PROPERTIES. MAY DEPRESS BONE MARROW AND IS VESICANT AND NASAL IRRITANT. BUSULFAN IS MUTAGENIC IN MOUSE, AND POSSIBLY, IN MAN. MAY CAUSE FETAL HARM WHEN ADMINISTERED TO A PREGNANT WOMAN. INTERFERES WITH SPERMATOGENESIS IN EXPERIMENTAL ANIMALS \*CONTINUES IN SUPPLEMENTAL DATA\*

Explanation of

of Carcinogenicity: BUSULFAN IS A CONFIRMED CARCINOGEN BY IARC AND NTP.

Effects of Overexposure: NASAL IRRITANT. CAUSES BLISTERS.

Medical Condition Aggravated by Exposure: NONE NOTED.

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

First Aid: EYES: RINSE IMMEDIATELY WITH PLENTY OF WATER. SEE DOCTOR.  
SKIN: WASH OFF SKIN WITH PLENTY OF WATER. SEE DOCTOR IF CONTACT IS PROLONGED. INHALATION: REMOVE TO FRESH AIR. SEE DOCTOR.  
INGESTION: WASH OUT MOUTH. GIVE FLUIDS. INDUCE VOMIT OR GASTRIC LAVAGE IF INGESTION WAS RECENT. SEE DOCTOR. GIVE ACTIVATED CHARCOAL IF INGESTION WAS RECENT. DAILY BLOOD COUNTS ARE NECESSARY FOR AT LEAST 4 WEEKS.

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

Extinguishing Media: USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.  
Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosion Hazard: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures: WEAR SUITABLE PROTECTIVE CLOTHING. SWEEP UP MINIMIZING DUST EVOLUTION. TRANSFER TO CLOSED DISPOSAL CONTAINER. DECONTAMINATE AREA WITH DILUTE CAUSTIC SODA AND SODIUM HYPOCHLORITE SOLUTION.  
Neutralizing Agent: DILUTE CAUSTIC SODA AND SODIUM HYPOCHLORITE SOLUTION.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT AND IGNITION SOURCES. KEEP CONTAINERS CLOSED. PROTECT FROM LIGHT.

Other Precautions:NONE NOTED.

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

Respiratory Protection:FULL AIR-SUPPLIED SUIT IS RECOMMENDED OR AN AIR-SUPPLIED HOOD WITH FULL BODY COVERING.

Ventilation:LOCAL EXHAUST.

Protective G

loves:DOUBLE LATEX

Eye Protection:CHEMICAL SAFETY GOGGLES

Other Protective Equipment:AVOID ALL CONTACT BY WEARING FULL BODY PROTECTIVE CLOTHING (FOR EXAMPLE TYVEK).

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

THIS IS AN ANTINEOPLASTIC DRUG. \*CONTINUED FROM HEALTH HAZARDS:THERE HAVE BEEN CLINICAL REPORTS OF STERILITY,AZOOSPERMIA AND TESTICULAR ATROPHY IN MALE PATIENTS RECEIVING

THIS DRUG\*

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

HCC:T6

Melt/Freeze Pt:M.P/F.P Text:243F,117C

Solubility in Water:INSOLUBLE

Appearance and Odor:WHITE ALMOST ODORLESS CRYSTALLINE POWDER.

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE, INCOMPLETELY BURNED CARBON PRODUCTS.

===== **Disposal Considerations** =====

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Waste Disposal Methods:NOTIFY YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. PRODUCT MAY BE INCINERATED. WASH WATERS AND RINSES SHOULD BE DISCHARGED TO AN APPROVED SEWERAGE SYSTEM.

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