

BURROUGHS WELLCOME CO. -- IMURAN -- 6505-00-119-9317

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

Product ID:IMURAN

MSDS Date:08/24/1988

FSC:6505

NIIN:00-119-9317

MSDS Number: BHHWW

=== 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:5P291

==

= 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

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

Ingred Name:IMURAN

(6-((1-METHYL-4-NITRO-1H-IMIDAZOL-5-YL)THIO)-1H-PURINE OR  
AZATHIOPRINE) \* 50 MG AZATHIOPRINE ACTIVE INGREDIENT\*

CAS:446-86-6

RTECS #:UO8925000

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

=====

LD50 LC50 Mixture:LD50 (ORAL MOUSE) IS 2500 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:AZATHIOPRINE IS MUTAGENIC IN ANIMALS

AND HUMANS.THE PRINCIPAL EFFECT IS DEPRESSION OF THE BONE

MARROW.PROLONGED IMMUNOSUPPRESSION MAY RESULT IN SUPERINFECTION

WITH BACTERIA,VIRUSES,PROTOZOA AND FUNGI. AZATHIOPRINE HAS BEEN

SHOWN TO BE MUTAGENIC IN ANIMALS AND HUMANS.AZATHIOPRINE

IS

TERATOGENIC IN RODENTS.

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

Effects of Overexposure:MANUFACTURER DID NOT SPECIFY.

Medical Cond Aggravated by Exposure:NONE NOTED.

===== 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.  
INGESTIO  
N:WASH OUT MOUTH. GIVE FLUIDS.SEE DOCTOR.THERE IS NOT A  
SPECIFIC ANTIDOTE TO AZATHIOPRINE.A SINGLE MODERATE OVERDOSE IS NOT  
SERIOUSLY THREATENING,BUT WOULD CALL FOR DAILY WATCH OF THE BLOOD  
COUNT FOR AT LEAST 2 WEEKS.

===== 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 CHEMI  
CAL 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.

===== 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.CLEAN AREA WITH DETE  
RGENT.  
Neutralizing Agent:DILUTE CAUSTIC SODA AND SODIUM HYPOCHLORITE  
SOLUTION.

===== 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 O

R AN

AIR-SUPPLIED HOOD WITH FULL BODY COVERING.

Ventilation:LOCAL EXHAUST OR BIOLOGICAL SAFETY CABINET.

Protective Gloves: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. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

THIS IS AN ANTINEOPLASTIC DRUG. \*CONTINUED FROM HEALTH HAZARD STATEMENT 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:460F, DECOMP

Solubility in Water:COMPLETE

Appearance and Odor:PALE, YELLOW, ODORLESS POWDER.

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

Stability Indicator/Materials to Avoid:YES

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

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

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.

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

This information is formulated for use

by elements of the Department

of Defense. 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.