

DUPONT MERCK PHARMACEUTICAL CO, THE -- COUMADIN, LYOPHILIZED PRODUCT --  
6505-00-982-4229

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

Product ID:COUMADIN, LYOPHILIZED PRODUCT

MSDS Date:06/01/1994

FSC:6505

NIIN:00-982-4229

MSDS Number: BTHWF

=== Responsible Party ===

Company Name:DUPONT MERCK PHARMACEUTICAL CO, THE

Address:BARLEY MILL PLAZA

Box:80026

City:WILMINGTON

State:DE

ZIP:19880-0026

Country:US

Info Ph

one Num:302-992-4240

Emergency Phone Num:800-424-9300/800-441-9861

Preparer's Name:SAFETY ASSESSMENT SECTION

CAGE:GO350

=== Contractor Identification ===

Company Name:DU PONT MERCK PHARMACEUTICAL CO, THE

Address:BARLEY MILL PLAZA

Box:80026

City:WILMINGTON

State:DE

ZIP:19880-0026

Country:US

Phone:800-441-9861

CAGE:04490

Company Name:DUPONT MERCK PHARMACEUTICAL CO

Box:80026

City:WILMINGTON

State:DE

ZIP:19880-0026

Country:US

Phone:302-992-4240

CAGE:GO350

===== Composition/Information on I

Ingredients =====

Ingred Name:WARFARIN SODIUM (SARA III)  
CAS:129-06-6  
RTECS #:GN4725000  
Fraction by Wt: 4.5-11%  
Other REC Limits:NONE SPECIFIED

Ingred Name:INACTIVE INGREDIENTS  
Fraction by Wt: 89-95.5%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL RAT LD50: 8.7 MG/KG : 800 MG/KG  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EFFECTS OF LONG-TERM OVEREXPOSURE BY  
INHALATION, INGESTION, SKIN CONTACT OR EYE CONTACT MAY CAUSE  
SUSCEPTIBILITY TO BRUISING AND LONGER BLOOD-CLOTting TIMES. OTHER  
EFFECTS MAY INCLUDE APPEARANCE OF BLOOD IN STOOL OR URINE,  
EXCESSIVE MENSTRUAL BLEEDING, RED DOTS ON SKIN, PERSISTENT OozING  
FROM SUPERFICIAL INJURIES.  
Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY IARC, NTP  
OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:BRUISING AND LONGER BLOOD  
-CLOTting TIMES,  
BLOOD IN STOOL OR URINE, RED DOTS ON SKIN.  
Medical Condition Aggravated by Exposure:PREEXISTING DISEASES OF THE BONE  
MARROW.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. GIVE MOUTH- TO-MOUTH  
RESUSCITATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS  
DIFFICULT. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH  
PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.  
SKIN:WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING.  
INGESTION:GIVE 2 GLASSES OF WATER AND INDUCE VOMITING IF VICTIM IS  
CONSCIOUS. GET MEDICAL ATTENTION.

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

Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:NONE  
Extinguishing Media:USE WATER SPRAY, FOAM, DRY POWDER (SAND OR  
MET-L-X), DRY CHEMICAL, CARBON DIOXIDE.  
Fire Fighting Procedures:EVACUATE PERSONNEL TO A SAFE AREA. KEEP  
PERSONNEL REMOVED AND UPWIND OF FIRE.

WEAR SELF-CONTAINED BREATHING  
APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT.  
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT  
DURING CLEAN UP. EVACUATE PERSONNEL, THOROUGHLY VENTILATE AREA, USE  
SELF-CONTAINED BREATHING APPARATUS. RECOVER UNDAMAGED/ MINIMALLY  
CONTAMINATED MATERIAL FOR REUSE OR RECLAMATION. AVOID DUST  
GENERATION

.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AT ROOM TEMPERATURE  
(15-30C/59-86F). PROTECT FROM LIGHT. KEEP CONTAINER TIGHTLY CLOSED.  
DO NOT STORE, CONSUME FOOD, DRINK OR USE TOBACCO IN AREA.  
Other Precautions:AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH  
EYES, SKIN, OR CLOTHING. CLOSE CONTAINER AFTER EACH USE.

===== 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 RECOMMENDATIONS.

Ventilation:LOCAL AND MECHANICAL(GENERAL) EXHAUST TO PROVIDE ADEQUATE  
VENTILATION.

Protective Gloves:NEOPRENE RUBBER GLOVES

Eye Protection:SAFETY GLASSES

Other Protective Equipment:WEAR INDUSTRIAL WORK CLOTHING. USE NEOPRENE  
OR

TYVEK APRON, BOOTS, JUMPSUIT OR WHOLE BODYSUIT AS APPROPRIATE.

Work Hygienic Practices:DO NOT CONSUME FOOD, DRINK OR TOBACCO IN THE  
AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.

Supplemental Safety and Health

SINCE THIS MATERIAL IS IN TABLETED FORM, NORMAL HANDLING OF THIS  
PRODUCT IS NOT CONSIDERED HAZARDOUS. THIS MSDS IS PROVIDED FOR  
THOSE CIRCUMSTANCES WHERE HANDLING OF THIS PRODUCT MAY RESULT IN  
SIGNIFICANT DUST GENERATION.

===== Physical/Chemical

I Properties =====

HCC:T6

Solubility in Water:APPRECIABLE

Appearance and Odor:WHITE, ODORLESS TABLET.

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:STABLE AT NORMAL TEMPERATURES AND STORAGE CONDITIONS.

Hazardous Decomposition Products:WILL NOT DECOMPOSE UNDER NORMAL CONDITIONS.

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

Waste Disposal Methods:TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

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.

e. 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.