

DUPONT MERCK PHARMACEUTICAL CO, THE -- COUMADIN -- 6505-00-982-4229  
===== Product Identification =====

Product ID:COUMADIN  
MSDS Date:08/13/1991  
FSC:6505  
NIIN:00-982-4229  
MSDS Number: BNBSK  
=== 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 Phone Num:302-992-4240  
Emergency Phone Num:  
800-441-9861  
Preparer's Name:C. K. WOOD  
CAGE:GO350  
=== Contractor Identification ===  
Company Name:DU PONT MERCK PHARMACEUTICAL CO, THE  
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CAGE:GO350

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

Ingred Name:WARFARIN SODIUM (SARA III)  
CA

S:129-06-6  
RTECS #:GN4725000  
Fraction by Wt: 0.9-4.5%  
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:ORAL RAT LD50:100MG(MALE) 8MG(FEMALE)/KG  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:HEMORRHAGE FROM ANY TISSUE OR ORGAN,  
NECROSIS OF SKIN AND OTHER TISSUES, ALOPECIA, HIVES, DERMATITIS,  
FEVER, NAUSEA, DIARRHEA, ABDOMINAL  
CRAMPING, CRAMPING, SYSTEMIC  
CHOLESTEROL MICROEMBOLIZATION, CHO LESTATIC HEPATIC INJURY,  
PARALYSIS, HEADACHE, JOINT PAIN, SHORTNESS OF BREATH, UNEXPLAINED  
SWELLING, UNEXPLAINED SHOCK.  
Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY IARC, NTP  
OR OSHA AS A CARCINOGEN, MUTAGEN, TERATOGEN OR NEUROTOXIN.  
Effects of Overexposure:HEMORRHAGE FROM ANY TISSUE OR ORGAN, NECROSIS  
OF SKIN AND OTHER TISSUES, ALOPECIA, HIVES, DERMATITIS, FEVER,  
NAUSEA, DIARRHEA, ABDOMINAL  
CRAMPING, CRAMPING, SYSTEMIC  
CHOLESTEROL MICROEMBOLIZATION, CHO LESTATIC HEPATIC INJURY,  
PARALYSIS, HEADACHE, JOINT PAIN, SHORTNESS OF BREATH, UNEXPLAINED  
SWELLING, UNEXPLAINED SHOCK.  
Medical Cond Aggravated by Exposure:COUMADIN IS CONTRAINDICATED IN  
WOMEN WHO ARE AR MY BECOME PREGNANT BECAUSE THE DRUG PASSES THROUGH  
THE PLACENTAL BARRIER AND MAY CAUSE FATAL HEMORRHAGE TO THE FETUS  
IN UTERO.

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===== 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 LEA ST 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.

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

Auto

ignition Temp:Autoignition Temp Text:NONE

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

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

===== 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 AND MINIMALLY CONTAMINATED MATERIAL FOR REUSE OR RECLAMATION.

Neutralizing Agent:IF MAJOR BLEEDING OCCURS, GIVE 5 TO 25 MG PARENTERAL VITAMIN K.

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

Handling and Storage Precautions:STORE ABOVE 15 DEG C. STORE BELOW 30 DEG C. STORE IN DARK PLACE. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE NEAR FOOD OR DRINK.

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Other Precautions:AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING.

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

Respiratory Protection:WEAR A NIOSH/MSHA APPROVED CHEMICAL CARTRIDGE RESPIRATOR WITH FULL FACEPIECE AND ORGANIC VAPOR CARTRIDGES IN COMBINATION WITH A HIGH-EFFICIENCY PARTICULATE FILTER WHEN APPROPRIATE TO PREVENT INHALATION OF DUST.

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

IF INGESTED, AN ACTIVATED CHARCOAL SLURRY MAY BE USED. TO PREPARE, SUSPEND 50 GRAMS OF ACTIVATED CHARCOAL IN 400

ML OF WATER IN A

PLASTIC BOTTLE AND SHAKE WELL. ORALLY ADMINISTER 5 ML/KG, OR 350 ML FOR AN AVERAGE ADULT. COUMADIN IS USED CLINICALLY AS AN ORAL ANTICOAGULANT.

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

HCC:T6

Solubility in Water:APPRECIABLE

Appearance and Odor:WHITE CRYSTALLINE POWDER, NO ODOR

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:WILL NOT DECOMPOSE UNDER NORMAL CONDITIONS.

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

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

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