

DUPONT (AGRICULTURAL PRODUCTS) -- KROVAR I DF HERBICIDE -- 6840-00-001-7710  
===== Product Identification =====

Product ID:KROVAR I DF HERBICIDE

MSDS Date:02/17/2000

FSC:6840

NIIN:00-001-7710

Status Code:A

MSDS Number: CKZBM

=== Responsible Party ===

Company Name:DUPONT (AGRICULTURAL PRODUCTS)

Address:1007 MARKET STREET

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:PROD INFO: 800-44

1-7515

Emergency Phone Num:MED EMER: 800-441-3637

Resp. Party Other MSDS Num.:DU005711

Chemtec Ind/Phone:(800)424-9300

CAGE:UO281

=== Contractor Identification ===

Company Name:DUPONT (AGRICULTURAL PRODUCTS)

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:PROD INFO: 800-441-7515

CAGE:UO281

Company Name:TIMBERLAND ENTERPRISES INC

Address:140 ARKANSAS ST

Box:557

City:MONTICELLO

State:AR

ZIP:71655

Country:US

Phone:501-367-8561

Contract Num:SP0450-01-M-D728

CAGE:1

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Composition/Information on Ingredients  
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Ingred Name: BROMACIL (5-BROMO-3-SEC-BUTYL-6-METHYLURACIL)  
CAS: 314-40-9  
RTECS #: YQ9100000  
= Wt: 40.

Ingred Name: DIURON (3-(3,4-DICHLOROPHENYL)-1,1-DIMETHYLUREA)  
CAS: 330-54-1  
RTECS #: YS8925000  
= Wt: 40.  
ACGIH TLV: 10 MG/M3  
EPA Rpt Qty: 100 LBS  
DOT Rpt Qty: 100 LBS

Ingred Name: INERT INGREDIENTS  
= Wt: 20.

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Hazards Identification  
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LD50 LC50 Mixture: ACUTE ORAL (RAT) LD50 >2,500 MG/KG  
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Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES  
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO  
Health Hazards Acute and Chronic: CAUTION: HARMFUL IF SWALLOWED. HARMFUL  
IF ABSORBED THROUGH SKIN. CAUSES EYE IRRITATION. SKIN IRRITATION  
AND SENSITIZATION. - IN SKIN IRRITATION TESTS WITH RABBITS, PRODUCT  
WAS A PRIMARY SKIN IRRITANT. IT WAS NOT A SKIN SENSITIZER IN TESTS  
WITH GUINEA PIGS. EYE (RABBIT) - A MILD EYE IRRITANT WITH EYES  
NORMAL WITHIN 7 DAYS AFTER TREATMENT

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Explanation of Carcinogenicity: NONE OF THE COMPONENTS PRESENT IN THIS  
MATERIAL AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED  
BY IARC, NTP, OSHA OR ACGIH AS A CARCINOGEN.

Effects of Overexposure: SKIN CONTACT MAY INITIALLY CAUSE IRRITATION OR  
RASH, EYE CONTACT MAY INITIALLY INCLUDE IRRITATION, TEARING, OR  
BLURRING OF VISION. OVEREXPOSURE BY INHALATION, INGESTION, SKIN OR  
EYE CONTACT MAY INITIALLY INCLUDE: SKIN IRRITATION WITH DISCOMFORT  
OR RASH; EYE IRRITATION

TION WITH DISCOMFORT, TEARING, OR BLURRING OF VISION; LIVER ENLARGEMENT; SPLEEN AND THYROID EFFECTS; RED BLOOD CELL DESTRUCTION; OR RED UCTION OF THE BLOOD'S OXYGEN CARRYING CAPACITY WITH CYANOSIS (BLUISH DISCOLORATION), WEAKNESS, OR SHORTNESS OF BREATH.

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

First Aid:INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A P HYSICIAN. SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. EYE CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. INGESTION: I F SWALLOWED, IMMEDIATELY GIVE 2 GLASSES OF WATER AND INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN.

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

Autoignition Temp:=420.C, 788.F  
Lower Limits:0.135 G/L  
Extinguishing Media:WATER SPRAY, FOAM, DRY CHEMICAL, CO2. MAY BE IGNITED BY HEAT OR OPEN FLAME.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT. USE WATER SPRAY. RUNOFF FROM FIRE CONTROL MAY BE A POLLUTION HAZARD.  
Unusual Fire/Explosion Hazard:IF AREA IS HEAVILY EXPOSED TO FIRE AND IF CONDITIONS PERMIT, LET FIRE BURN ITSELF OUT SINCE WATER MAY INCREASE THE CONTAMINATION HAZARD.

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

Spill Release Procedures:SAFEGUARDS: REVIEW FIRE FIGHTING MEASURES AND HANDLING (PERSONNEL) SECTIONS BEFORE PROCEEDING WITH CLEAN-UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP. SHOVEL OR SWEEP UP. NEVER RE TURN TO CONTAINER FOR REUSE. SCOOP INTO BAGS OR BOXES WITH PLASTIC OR ALUMINUM SHOVEL. IF SPILL AREA IS ON GROUND NEAR VALUABLE PLANTS OR TREES, REMOVE TOP 2 INCHES OF SOIL AF

TER INITIAL CLEAN UP.

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

Handling and Storage Precautions:STORE IN A WELL VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. USERS SHOULD: WASH HANDS BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET.

Other Precautions:AVOID BREATHING VAPORS OR MIST, AVOID BREATHING DUST. AVOID CON

TACT WITH EYES, SKIN, OR CLOTHING. WASH THOROUGHLY AFTER HANDLING. WASH CLOTHING AFTER USE. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.

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

Respiratory Protection:ALWAYS FOLLOW LABEL INSTRUCTIONS WHEN USING THIS PRODUCT. PPE REQUIRED FOR EARLY ENTRY TO TREATED AREAS THAT IS PERMITTED UNDER THE WORKER PROTECTION STANDARD AND THAT INVOLVES ANY

THING THAT HAS BEEN TREATED, SUCH AS PLANTS, SOIL, OR WATER.

Ventilation:USE ONLY WITH ADEQUATE VENTILATION. KEEP CONTAINER TIGHTLY CLOSED.

Protective Gloves:WATERPROOF GLOVES.

Other Protective Equipment:LONG-SLEEVED SHIRT AND LONG PANTS. WATERPROOF GLOVES, SHOES PLUS SOCKS, COVERALLS.

Supplemental Safety and Health

FOLLOW MANUFACTURER'S INSTRUCTIONS FOR CLEANING/MAINTAINING PPE. IF NO SUCH INSTRUCTIONS FOR WASHABLES, USE DETERGENT AND HOT WATER. KEEP AND WASH PPE SEPARATELY FROM OTHER LAUNDRY.

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

HCC:V7

Solubility in Water:DISPERSIBLE

Appearance and Odor:BROWN SOLID. ODOR: NONE

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

Stability Indicator/Materials to Avoid:YES

NONE REASONABLY FORESEEABLE.

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

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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===== Toxicological Information =

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Toxicological Information: BROMACIL: THE COMPOUND IS A MODERATE SKIN IRRITANT, IS A MILD TO MODERATE EYE IRRITANT, BUT IS NOT A SKIN SENSITIZER. RABBITS ACUTELY EXPOSED VIA DERMAL ROUTE DEMONSTRATED NO CLINICAL SIGNS OF TOXICITY, AND NO GROSS TISSUE CHANGES WERE OBSERVED, AT THE HIGHEST PRACTICAL DOSE, 5,000 MG/KG. DIURON: THE COMPOUND IS A SKIN IRRITANT, IS AN EYE IRRITANT, AND IS NOT A SKIN SENSITIZER IN ANIMALS. TOXIC EFFECTS DESCRIBED IN ANIMALS FROM

SHORT EXPOSURES BY INHALATION, INGESTION, OR SKIN CONTACT INCLUDE: BLOOD EFFECTS, SPLEEN EFFECTS, THYROID EFFECTS, METHEMOGLOBINEMIA, AND NONSPECIFIC EFFECTS SUCH AS WEIGHT LOSS, ETC.

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

Waste Disposal Methods: TREATMENT, STORAGE, TRANSPORTATION, AND DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS. REMOVE NONUSABLE SOLID MATERIAL AND/OR CONTAMINATED SOIL, FOR DISPOSAL IN AN APPROVED AND PERMITTED LANDFILL. DO NOT FLUSH TO SURFACE WATER OR SANITARY SEWER SYSTEM.

===== MSDS Transport Information =====

Transport Information: NOT REGULATED

===== Regulatory Information =====

SARA Title III Information: TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312- ACUTE: YES, CHRONIC: YES, FIRE: NO, REACTIVITY: NO, PRESSURE: NO. SARA/CERCLA REPORTABLE QUANTITY- DIURON (100 LBS).

Federal Regulatory Information: THIS PRODUCT IS REGISTERED AND CONTROLLED UNDER EPA/FIFRA REGULATIONS.

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