

MONSANTO CO -- ROUNDUP PRO HERBICIDE -- 6840-01-108-9578

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

Product ID:ROUNDUP PRO HERBICIDE

MSDS Date:11/01/1995

FSC:6840

NIIN:01-108-9578

Status Code:A

MSDS Number: CJNMP

=== Responsible Party ===

Company Name:MONSANTO CO

Address:800 N LINDBERGH BLVD

City:SAINT LOUIS

State:MO

ZIP:63167

Country:US

Info Phone Num:800-332-3111

Emergency Phone Num:314-694-4000 (CALL COLLECT)

CAGE:76541

=== Contractor Identification ===

Company Name:B.L. MITCHELL

CAGE:00CJ6

Company Name:MONSANTO CHEMICAL CO

Address:800 N LINDBERGH BLVD M/C G5NC

Box:City:SAINT LOUIS

State:MO

ZIP:63141

Country:US

Phone:314-694-4000 (COLLECT)

CAGE:6H252

Company Name:MONSANTO CO, FIBERS BUSINESS UNIT

Address:800 N LINDBERGH BLVD

Box:City:SAINT LOUIS

State:MO

ZIP:63167

Country:US

Phone:314-694-1000

CAGE:3Y784

Company Name:MONSANTO COMPANY

Address:800 N LINDBERGH BLVD

Box:City:SAINT LOUIS

State:MO

ZIP:63167  
Country:US  
Phone:314-694-6661 OR 800-332-3111  
CAGE:76541  
Company Name:TIMBERLAND ENTERPRISES INC  
Address:140 ARKANSAS ST  
Box:557  
City:MONTICELLO  
State:AR  
ZIP:71655  
Country:US  
Phone:501-367-8561  
CAGE:1HB45

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Composition/Information on Ingredients  
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Ingred Name:N-(PHOSPHNOMETHYL)GLYCINE, MONOISOPROPYLAMINE  
SALT/GLYPHOSATE ISOPROPYLAMINE SALT  
CAS:38641-94-0  
RTECS #:MC1080000  
Fraction by Wt: 41%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:INERT INGREDIEN  
TS (INCLUDING SURFACTANT- PHOSPHATE ESTER  
NEUTRALIZED POLYETHOXYLATED TALLOWAMINE: 14.5%)  
Fraction by Wt: 59%  
Other REC Limits:NONE RECOMMENDED

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Hazards Identification  
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS >5000 MG/KG.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:NOT SPECIFIED BY  
MANUFACTURER. EYES: MAY CAUSE PAIN. SKIN: SLIGHTLY I  
RRITATING.  
INGESTION: SLIGHTLY TOXIC. MAY CAUSE GASTROINTESTINAL TRACT  
IRRITATION, HYPOTENSION & LUNG EDEMA. INHAL ATION: NO MORE THAN  
SLIGHTLY TOXIC IF INHALED. CHRONIC- UNKNOWN.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:EYES: PAIN, REDNESS AND TEARING. SKIN: NO MORE  
THAN SLIGHTLY IRRITATING. INGESTION: SIMILAR FORMULATIONS HAS BEEN  
REPORTED TO PRODUCE IRRITATION OF THE MOUTH, NAUSEA, VOMITING AND  
DIARRHEA.

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First Aid Measure  
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First Aid:EYES: FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. NOTE: FOR ADDITIONAL HUMAN EMERGENCY FIRST AID OR TREATMENT GUIDANCE, CALL COLLECT, ANYTIME, DAY OR NIGHT (314) 694-400 0.

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

Flash Point Method:PMCC

Flash Point:>93.3C, 200.F

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM, DRY CHEMICAL OR ANY CLASS B FIRE EXTINGUISHING AGENT.

Fire Fightin

g Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. EQUIPEMENT SHOULD BE THOROUGHLY CLEANED AFTER USE.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:SM SPILLS: FOR < 1 GALLON SOAK UP WITH TOWEL OR OTHER ABSORBENT MATERIAL & DISCARD IN THE TRASH. CLEAN THE SPILL AREA WITH SOAP & WATER & RINSE THE AREA. LG SPILL: CONTAIN OR DIKE & THEN ABSORB WITH A

TTAPULGITE, BENTONITE OR OTHER ABSORBENT CLAYS. COLLECT THE CONTAMINATED ABSORBENT, PLACE IN A METAL DRUM & DISPOSE OF IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED UNDER DISPOSAL SECTION.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:SO NOT CONTAMINATE WATER, FOODSTUFFS, FEED OR SEED BY STORAGE OR DISPOSAL. AVOID CONTACT WITH EYES OR CLOTHING. REMOVE CLOTHING IMMEDIATELY IF PESTICIDE GETS INSIDE. DO

NOT CONTAMINATE WATER WHEN DISP OSING OF EQUIPMENT WASHWATERS.

Other Precautions:AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING VAPORS/MISTS. WASH THOROUGHLY AFTER HANDLING MATERIAL AND BEFORE EATING OR DRINKING. DO NOT INGEST.

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

Respiratory Protection:IN THE EVENT OF ABNORMAL EXPOSURE CONDITIONS, WEAR NIOSH APPROVED EQUIPMENT. IN SITUATIONS WHERE AN AIR PURIFYING RESPIRATOR IS APPROPRIATE TO B

E USED, USE OF A FULL FACE RESPIRATOR  
EQUIPPED WITH PURIFYING ELEMENTS FOR PROTECTION AGAINST ORGANIC  
VAPOR & DUST/MIST APPROVED FOR PESTICIDES IS RECOMMENDED. USE  
CARTRIDGES WITH NIOSH/MSHA APPROVAL NUMBER TC-23C.

Ventilation:NO SPECIAL PRECAUTIONS ARE RECOMMENDED.

Protective Gloves:WEAR APPROPRIATE GLOVE.

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION, EMERGENCY SHOWER,  
APPROPRIATE LABORATORY COAT TO COVER EXPOSED SKIN

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Hygienic Practices:DO NOT PERMIT EATING, DRINKING OR SMOKING NEAR  
THIS MATERIAL.

Supplemental Safety and Health

EPA REGISTRATION NUMBER: 524-475.

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

HCC:T5

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:1.17

pH:4.99 (1% SOL'N)

Appearance and Odor:CLEAR, VISCOUS, AMBER COLORED SOLUTION -  
PRACTICALLY ODORLESS TO AMINE ODOR

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

Stability Indicator/Materials to Avoid:

Stability Indicator:YES

BASIC MATERIALS, GALVANIZED OR UNLINED STEEL (EXCEPT STAINLESS STEEL)  
CONTAINERS OR SPRAY TANKS

Stability Condition to Avoid:STABLE FOR AT LEAST 5 YEARS UNDER NORMAL  
CONDITIONS OF WAREHOUSE.

Hazardous Decomposition Products:NONE

===== Toxicological Information =====

Toxicological Information:ORAL RAT LD50 >5000 MG/KG; FIFRA CATEGORY IV.

DERMAL RAT LD50 >5000 MG/KG; FIFRA CATEGORY IV. INHALATION RAT  
LC50 (4 HR. EXP.) 4.2 MG/L; FIFRA CATEGORY IV.

Y IV; NOT DOT POISONOUS.

EYE IRRITATION RABBIT; MODERATELY IRRITATING, ALL ANIMALS FREE OF  
IRRITATION BY DAY 7, FIFRA CATEGORY III. SKIN IRRITATION RABBIT (4  
HR. EXP.); SLIGHTLY IRRITATING; PII 0.63/8.0, ALL ANIMALS FREE OF  
IRRITATION BY DAY 7, FIFRA CATEGORY IV.

===== Ecological Information =====

Ecological:AQUATIC & AVIAN STUDIES WITH THIS PRODUCT HAVE NOT BEEN  
CONDUCTED AT THIS TIME. HOWEVER, AN EXTENSIVE DATABASE OF STUDIES  
EXISTS

TS FOR THE ACTIVE INGREDIENTS GLYPHOSATE. THESE STUDIES INDICATE THAT GLYPHOSATE RANGES FROM PRACTICALLY NON-TOXIC TO SLIGHTLY TOXIC IN A VARIETY OF AQUATIC & AVIAN SPECIES. FOR GLYPHOSATE MSDS OR ADDITIONAL INFORMATION, CONTACT MONSANTO AT 1-800-332-3111.

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

Waste Disposal Methods: WASTES RESULTING FROM THE USE OF THIS PRODUCT THAT CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF IN A LANDFILL

IS APPROVED FOR PESTICIDE DISPOSAL OR IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE OR LOCAL PROCEDURES. EMPTIED CONTAINERS RETAIN VAPOR & PRODUCT RESIDUE. OBSERVE ALL LABELED SAFEGUARDS UNTIL CONTAINER IS CLEANED.

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

Transport Information: DOT PROPER SHIPPING NAME: NOT APPLICABLE.

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

SARA Title III Information: HAZARD CATEGORIES UNDER CRITERIA OF SARA

TITLE III RULES (40 CFR PART 370): IMMEDIATE. SECTION 313 TOXIC CHEMICALS: NOT APPLICABLE.

Federal Regulatory Information: TSCA INVENTORY: ALL COMPONENTS ARE ON THE US EPA'S TSCA INVENTORY LIST.

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