

MONSANTO CO -- ROUNDUP PRO HERBICIDE

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MSDS Safety Information  
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FSC: 6840  
NIIN: 01-108-9578  
MSDS Date: 07/25/2001  
MSDS Num: CLMNZ  
Product ID: ROUNDUP PRO HERBICIDE  
MFN: 07  
Responsible Party  
Cage: 76541  
Name: MONSANTO CO  
Address: 800 N LINDBERGH BLVD  
City: SAINT LOUIS MO 63167  
Info  
Phone Number: 800-332-3111  
Emergency Phone Number: 314-694-4000 (MEDICAL)

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Item Description Information  
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Item Manager: S9G  
Item Name: HERBICIDE, GLYPHOSATE  
Specification Number: NONE  
Type/Grade/Class: NONE  
Unit of Issue: BX  
Quantitative Expression: 00000000002EA  
UI Container Qty: 1  
Type of Container: CONTAINERS

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Ingredients  
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Name: \*\*\* PROPRIETARY \*\*\*  
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Health Hazards Data  
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LD50 LC50 Mixture: LD50 (ORAL, RAT) 5,108 MG/KG  
Carcinogenicity Inds - NTP: NO  
IARC: NO  
OSHA: NO  
Effects of Exposure: EYE CONTACT, SHORT TERM: MAY CAUSE TEMPORARY EYE IRRITATION. SKIN CONTACT, SHORT TERM: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE EFFECTS W

WHEN RECOMMENDED USE INSTRUCTIONS ARE FOLLOWED. INHALATION, SHORT TERM: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE EFFECTS WHEN RECOMMENDED USE INSTRUCTIONS ARE FOLLOWED.

Explanation Of Carcinogenicity: NONE

Signs And Symptoms Of Overexposure: EYE CONTACT: MAY CAUSE TEMPORARY EYE IRRITATION.

Medical Cond Aggravated By Exposure: NONE KNOWN

First Aid: EYE CONTACT: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF EASY TO DO SO, REMOVE ANY CONTACT LENSES. SKIN CONTACT: TAKE OFF

CONTAMINATED CLOTHING, WRISTWATCH, JEWELRY. WASH AFFECTED SKIN WITH PLENTY OF WATER. WASH CLOTHES BEFORE RE-USE. INHALATION: REMOVE TO FRESH AIR. INGESTION: IMMEDIATELY OFFER WATER TO DRINK. DO NOT INDUCE VOMITING UNLESS DIRECTED BY MEDICAL PERSONNEL. IF SYMPTOMS OCCUR, GET MEDICAL ATTENTION. ADVICE TO DOCTORS: THIS PRODUCT IS NOT AN INHIBITOR OF CHOLINESTERASE. ANTIDOTE: TREATMENT WITH ATROPINE AND OXIMES IS NOT INDICATED

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Handling and Disposal

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Spill Release Procedures: SMALL QUANTITIES: LOW ENVIRONMENTAL HAZARD. FLUSH SPILL AREA WITH WATER. LARGE QUANTITIES: MINIMIZE SPREAD. KEEP OUT OF DRAINS, SEWERS, DITCHES AND WATER WAYS. NOTIFY AUTHORITIES. ABSORB IN EARTH, SAND OR ABSORBENT MATERIAL. DIG UP HEAVILY CONTAMINATED SOIL. COLLECT IN CONTAINER FOR DISPOSAL. FLUSH RESIDUE WITH SMALL QUANTITIES OF WATER. MINIMIZE USE OF WATER.

Neutralizing Agent:

NOT PROVIDED

Waste Disposal Methods: RECYCLE IF APPROPRIATE FACILITIES/EQUIPMENT AVAILABLE. BURN IN SPECIAL, CONTROLLED HIGH TEMPERATURE INCINERATOR. DISPOSE OF AS HAZARDOUS INDUSTRIAL WASTE. KEEP OUT OF DRAINS, SEWERS, DITCHES AND WATER WAYS. FOLLOW ALL LOCAL/REGIONAL/NATIONAL REGULATIONS. TRIPLE RINSE EMPTY CONTAINERS. DO NOT RE-USE CONTAINERS.

Handling And Storage Precautions: MINIMUM STORAGE TEMPERATURE: -15C. MAXIMUM STORAGE TEMPERATURE: 50C. COMPATIBLE MATERIALS FOR STORAGE:

STAINLESS STEEL,

ALUMINUM, FIBERGLASS, PLASTIC, GLASS LINING. INCOMPATIBLE MATERIALS FOR STORAGE: GALVANISED STEEL, UNLINED MILD STEEL. KEEP ONLY IN ORIGINAL CONTAINER. KEEP AWAY FROM FOOD, FEED.

Other Precautions: WHEN USING, DO NOT EAT, DRINK OR SMOKE. WASH HANDS THOROUGHLY AFTER HANDLING OR CONTACT. THOROUGHLY CLEAN EQUIPMENT AFTER USE. DO NOT CONTAMINATE DRAINS, SEWERS AND WATERWAYS WHEN DISPOSING OF EQUIPMENT. RINSE WATER. EMPTIED CONTAINER RETAINS VAPOR AND PRODUCT RESIDUE, O

BSEVE

LABELED SAFEGUARDS UNTIL CONTAINER IS CLEAN.

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Fire and Explosion Hazard Information  
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Flash Point Text: NONE

Extinguishing Media: IRECOMMENDED: WATER, FOAM, DRY CHEMICAL, CARBON DIOXIDE (CO2)

Fire Fighting Procedures: SELF-CONTAINED BREATHING APPARATUS. EQUIPMENT SHOULD BE THOROUGHLY DECONTAMINATED AFTER USE.

Unusual Fire/Explosion Hazard: MINIMIZE USE OF WATER TO PREVENT ENVIRONMENTAL CONTAMINATION.

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Control Measures  
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Respiratory Protection: NO SPECIAL REQUIREMENT WHEN USED AS RECOMMENDED.

Ventilation: NO SPECIAL REQUIREMENT WHEN USED AS RECOMMENDED.

Protective Gloves: IF REPEATED OR PROLONGED CONTACT: WEAR CHEMICAL RESISTANT GLOVES.

Eye Protection: NO SPECIAL REQUIREMENT WHEN USED AS RECOMMENDED.

Other Protective Equipment: WHEN RECOMMENDED, CONSULT MANUFACTURER OF PERSONAL

PROTECTIVE EQUIPMENT FOR THE APPROPRIATE TYPE OF EQUIPMENT FOR A GIVEN APPLICATION.

Work Hygienic Practices: NOT PROVIDED

Supplemental Safety and Health: ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM. GI = GASTROINTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS.

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Physical/Chemical Properties  
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HCC: C3

NRC/State LIC No: NOT RELEVANT

B.P. Text: NOT PROVIDED

M.P/F.P Text: NOT PROVIDED

Decomp Text: NOT PROVIDED

Vapor Pres: NOT PROVIDED

Spec Gravity: 1.169

PH: 4.4-5.0

Viscosity: NOT PROVIDED

Evaporation Rate & Reference: NOT PROVIDED

Solubility in Water: MISCIBLE

Appearance and Odor: CLEAR, AMBER LIQUID - SWEET ODOR

Percent Volatiles by Volume: NOT PROVIDED

Corrosion Rate: NOT PROVIDED  
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Reactivity Data  
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Stability Indicator: YES

Stability Condition To Avoid: STABLE UNDER NORMAL CONDITIONS OF HANDLING AND STORAGE.

Materials To Avoid: REACTS WITH GALVANISED STEEL OR UNLINED MILD STEEL TO PRODUCE HYDROGEN, A HIGHLY FLAMMABLE GAS THAT COULD EXPLODE.

Hazardous Decomposition Products: CARBON MONOXIDE (CO), PHOSPHORUS OXIDES (PXOY), NITROGEN OXIDES (NOX)

Conditions To Avoid Polymerization: NOT PROVIDED

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Toxicological Information  
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Toxicological Information: SINGLE EXPOSURE (ACUTE) STUDIES INDICATE: LD50 (ORAL, RAT) 5,108 MG/KG PRACTICALLY NON-TOXIC. ORAL- FIFRA CATEGORY IV. DERMAL: LD50 (DERMAL, RAT) > 5,000 MG/KG. FIFRA CATEGORY IV. INHALATION: RAT, LC50, 4 HOURS, AEROSOL: 29 MG/L. FIFRA CATEGORY IV; EYE IRRITATION: FIFRA CATEGORY III. SKIN IRRITATION: FIFRA CATEGORY IV.

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Ecological Information  
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Ecological: INVERTEBRATES: 48 HOURS EC50 DAPHNIA MAGNA: 11 MG/L; SLIGHTLY TOXIC. WARMWATER FISH: 96-HR LC50 BLUEGILL SUNFISH: 7.5 MG/L; MODERATELY TOXIC. GOLDWATER FISH: 96-HR LC50 RAINBOW TROUT: 5.5 MG/L: MODERATELY TOXIC. AVIAN SPECIES: 8-DAY LC50 BOBWHITE QUAIL: > 5,620 PPM; PRACTICALLY NONTOXIC. 8-DAY LC50 MALLARD DUCK: > 5,620 PPM; PRACTICALLY NONTOXIC. ARTHROPODS: 48-HR ORAL LD50 HONEYBEE: > 100 MICROGRAMS/BEE; PRACTICALLY NONTOXIC. 48-HR CONTACT LD50 HONEYBEE: > 100 MICROGRAMS/BEE; PRACTICALLY NONTOXIC.

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MSDS Transport Information  
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Transport Information: THE DATA PROVIDED IS FOR INFORMATION ONLY. PLEASE APPLY THE APPROPRIATE REGULATIONS TO PROPERLY CLASSIFY YOUR SHIPMENT FOR TRANSPORTATION.

ON. THIS PRODUCT IS NOT HAZARDOUS UNDER THE APPLICABLE DOT, ICAO/IATA, OR IMDG REGULATIONS.

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Regulatory Information  
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Federal Regulatory Information: EPA REGISTRATION NUMBER: 524-475. TSCA INVENTORY: ALL COMPONENTS ARE LISTED IN THE TSCA INVENTORY. HAZARDOUS CHEMICALS UNDER OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200): SURFACTANT.

State Regulatory Information: NOT PROVIDED

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Other Information  
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Other Information: NONE  
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Transportation Information  
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Responsible Party Cage: 76541

Trans ID NO: 159041

Product ID: ROUNDUP PRO HERBICIDE

MSDS Prepared Date: 07/25/2001

Review Date: 09/26/2001

MFN: 7

Net Unit Weight: 48.7LBS/BOX

Multiple KIT Number: 0

Uni

t Of Issue: BX

Container QTY: 1

Type Of Container: CONTAINERS

Additional Data: NOT REGULATED FOR TRANSPORTATION, PER MSDS.  
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Detail DOT Information  
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DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
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Detail IMO Information  
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IMO PSN Code: ZZ

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IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
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Detail IATA Information  
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IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
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Detail AFI Information  
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AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY T

HIS MODE OF TRANSPORTATION

HAZCOM Label

Product ID: LABEL COVERED UNDER EPA REGS - HAZCOM LABEL NOT AUTHORIZED

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