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MONSANTO CO

-- ROUNDUP PRO HERBICIDE

MSDS Safety Information

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 P

hone Number: 800-332-3111

Emergency Phone Number: 314-694-4000 (MEDICAL)

Item Description Information

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

Ingredients

Name: *** PROPRIETARY ***

Health Hazards Data

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 WH

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

Explanation Of Carcinogenicity: NONE

Signs And Symptions 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: TA KE OFF

CONTAMINATED CLOTHING, WRISTWATCH, JEWELRY. WASH AFFEC TED 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

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, SAN D 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 EQUIPME NT
RINSE WATER. EMPTIED CONTAINER RETAINS VAPOR AND PRODUCT RESIDUE, OB

SEVE

LABELED SAFEGUARDS UNTIL CONTAINER IS CLEAN.

Fire and Explosion Hazard Information

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 ENV

IRONMENTAL

CONTAMINATION.

Control Measures

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 M

ANUFACTURER 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

 ${\sf DETERMINED}.\ {\sf N/E} = {\sf NOT}\ {\sf ESTABLISHED}.\ {\sf CNS} = {\sf CENTRAL}\ {\sf NERVOUS}\ {\sf SYSTEM}.\ {\sf GI} = {\sf GASTROI}$

NTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS.

P hysical/Chemical Properties

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 & Dr 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

Reactivity Data ______ 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 Polymerizat

ion: NOT PROVIDED

Toxicological Information

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, LC5 0, 4 HOURS, AEROSOL: 29 MG/L. FIFRA CATEGORY IV; EYE IRRITATION: FIFRA CATEGORY III. SKIN IRRITATION: FI

FRA CATEGORY IV.

Ecological Information

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: MODERA TELY TOXIC. AVIAN SPECIES: 8-DAY LC50 BOBWHITE QUAIL: > 5,620 PPM; PRACTICALLY NONTOXIC. 8-DAY LC50 MALLARD DUCK: > 5,62

0 PPM; PRACTICALLY NONTOXIC.

ARTHROPODS: 48-HR ORAL LD50 HONEYBEE: > 100 MICROGR AMS/BEE; PRACTICALLY NONTOXIC. 48-HR CONTACT LD50 HONEYBEE: > 100 MICROGRAMS/BEE; PRACTICALLY NONTOXIC.

MSDS Transport Information

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

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

Regulatory Information

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 PROVID

ED Other Information _____ Other Information: NONE -----Transportation Information -----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 Unit Of Issue: BX Container QTY: 1 Type Of Container: CONTAINERS Additional Data: NOT REGULATED FOR TRANSPORTATION, PER MSDS. _____ **Detail DOT Information** _____ DOT PSN Code: ZZZ DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION -----Detail IMO Information IMO PSN Code: ZZZ IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION _____

Detail IATA Information

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail AFI Information

AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY TH

IS MODE OF TRANSPORTATION

HAZCOM Label

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

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