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MONSANTO CO

-- ROUNDUP PRO HERBICIDE

MSDS Safety Information

_____ FSC: 6840 NIIN: 01-108-9578 MSDS Date: 04/22/2000 MSDS Num: CLFDM Product ID: ROUNDUP PRO HERBICIDE MFN: 06 **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: 703-527-3887(COLLECT-NOT IN US) Resp. Party Other MSDS No.: S00012732 _____ Item Description Information _____ Item Manager: S9G Item Name: HERBICIDE, GLYPHOSATE Specification Number: NONE Type/Grade/Class: NONE Unit of Issue: BX Quantitative Expression: 0000000002EA UI Container Qty: 1 Type of Container: CONTAINERS _____ _____ Ingredients _____ Name: *** PROPRIETARY *** -----_____ Health Hazards Data _____ LD50 LC50 Mixture: NOT PROVIDED Route Of Entry Inds - Inhalation: YES Skin: YES Ingestion: NO Carcinogenicity Inds - NTP: NO IARC: NO OSHA: NO Effects of Exposure: EYE CONTACT: THIS PRODUCT MAY CAUSE PAIN, REDNESS A ND

TEARING. SKIN CONTACT: THIS PRODUCT IS NO MORE THAN MILDLY IRRITATING . INHALATION: THIS PRODUCT IS NO MORE THAN SLIGHTLY TOXIC IF INHALED BASED O N TOXICITY STUDIES. INGESTION: THIS PRODUCT IS NO MORE THAN SLIGHTLY TOXIC. NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED IF ONLY SMALL AMOUNTS ARE SWALLOWED. SIMILAR FORMULATIONS HAS BEEN REPORT ED TO PRODUCE GASTROINTESTINAL DISCOMFORT WITH IRRITATION OF THE MOUTH, NAUSEA, VOMITING AND DIARRHEA. ORAL INGESTION OF LARGE QUANTITI

ES OF ONE SIMILAR PRODUCT HAS

BEEN REPORTED TO RESULT IN HYPOTENS ION AND LUNG EDEMA. Explanation Of Carcinogenicity: NONE

Explanation Of Carcinogenicity: NONE

Signs And Symptions Of Overexposure: EYE CONTACT: THIS PRODUCT MAY CAUSE PAIN, REDNESS AND TEARING. SKIN CONTACT: THIS PRODUCT IS NO MORE THAN MILDLY IRRITATING. INGESTION: SIMILAR FORMULATIONS HAS BEEN REPORTED TO PRODUCE GASTROINTESTIN AL DISCOMFORT WITH IRRITATION OF THE MOUTH, NAUSEA, VOMITING AND DIARRHEA.

Medical Cond Aggravated By Exposure: NONE KNOWN First

Aid: IF IN EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF EASY TO DO SO, REMOVE ANY CONTACT LENSES. GET MEDICAL ATTENTION. REMOVE MATERIAL FROM SKIN AND CLOTHING. IF ON SKIN: IMME DIATE FIRST AID IS NOT LIKELY TO BE REQUIRED. THIS MATERIAL CAN BE REMOVED WITH WATER. WASH HEAVILY CONTAMINATED CLOTHING BEFORE REUSE. IF INHALED: IMMEDIATE FIRST AID IS NOT LIKELY TO BE REQUIRED. IF SYMPTOMS OCCUR, REMOVE TO FRESH AIR. IF SWALLOWED: IMMEDIATE FIRST AID IS NOT LI

KELY TO BE REQUIRED. A PHYSICIAN OR

POISON CONTROL CENTER CAN BE CONTACTED FOR ADVICE. WASH HEAVILY CONTAMINATED CLOTHI NG BEFORE REUSE.

Handling and Disposal

Spill Release Procedures: FOR SPILL LESS THAN 1 GALLON, SOAK UP WITH TOWELS/OTHER ABSORBENTS AND DISCARD IN TRASH. CLEAN AREA WITH SOAP AND WATER. CONTAIN LARGE SPILLS. ABSORB WITH BENTONITE/OTHER CLAYS. PLACE IN A METAL DRUM. THOROUGHLY SCRUB FLOOR WITH STRONG DETERGENT AND RINSE WITH WATER. LARGE SPILLS THAT SOAK INTO GROUND SHOULD BE DUG UP, PLACED IN METAL DRUMS AND DISPOSED OF PROPERLY.

Neutralizing Agent: NOT RELEVANT

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 APPROVED FOR PESTICIDE DISPOSAL OR IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE OR LOCAL PROCEDURES. EMPTIED CONTAINERS RETAIN

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VAPOR AND PRODUCT
RESIDUE. OBSERVE ALL LABELE D SAFEGUARDS UNTIL CONTAINER IS CLEANED.
Handling And Storage Precautions: DO NOT CONTAMINATE FOOD, FEED OR WATER BY
STORAGE OR DISPOSAL. DO NOT APPLY DIRECTLY TO WATER. DO NOT CONTAMINATE WATER
BY CLEANING OF EQUIPMENT OR DISPOSAL OF WASHWATERS.
Other Precautions: AVOID CONTACT WITH EYES OR CLOTHING. WASH HANDS BEFORE
EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET. REMOVE
CLOTHING IMMEDIATELY IF PESTICIDE GETS INSIDE.
______
Fire and Explosion Hazard Information
_____
Flash Point Text: NONE
Lower Limits: UNKNOWN
Upper Limits: UNKNOWN
Extinguishing Media: IN CASE OF FIRE, USE WATER (FLOOD WITH WATER), CARBON
DIOXIDE, ALCOHOL FOAM, DRY CHEMICAL
Fire Fighting Procedures: FIREFIGHTERS AND OTHERS EXPOSED TO PRODUCTS OF
COMBUSTION SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS. EQUIPMENT SHOULD
BE THOROUGHLY DECON
TAMINATED AFTER USE.
Unusual Fire/Explosion Hazard: NONE
_____
Control Measures
_____
Respiratory Protection: IN THE EVENT OF ABNORMAL EXPOSURE CONDITIONS, WEAR
NIOSH APPROVED EQUIPMENT. IN SITUATIONS WHERE AN AIR PURIFYING RESPIRATOR IS
APPROPRIATE TO BE USED, USE OF A FULL FACE RESPIRATOR EQUIPPED WITH PURI
FYING ELEMENTS FOR PROTECTION AGAINST ORGANIC VAPOR AND DUST/MIST APPROVED
FOR P
ESTICIDES IS RECOMMENDED. COMPLY WITH OSHA 29 CFR 1910.134.
Ventilation: NO SPIECIAL PRECAUTIONS ARE RECOMMENDED.
Protective Gloves: WEAR APPROPRIATE GLOVE.
Eve Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES
Other Protective Equipment: EYE WASH STATION, EMERGENCY SHOWER, APPROPRIATE
LABORATORY COAT TO COVER EXPOSED SKIN
Work Hygienic Practices: KEEP AND WASH PPE SEPARATELY FROM OTHER LAUNDRY.
Supplemental Safety and Health: EPA REGISTRATION NUMBER: 524-475. ABBREVIATION:
N/A = NOT APPLIC
ABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT
PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.
CNS = CE NTRAL NERVOUS SYSTEM. GI = GASTROINTESTINAL. SCBA = SELF CONTAINED
BREATHING APPARATUS.
_____
Physical/Chemical Properties
_____
HCC: T5
NRC/State LIC No: NOT RELEVANT
B.P. Text: NOT PROVIDED
M.P/F.P Text: NOT PROVIDED
Decomp Text: NOT PROVIDED
Vapor Pres:
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NOT PROVIDED Spec Gravity: 1.17 PH: 4.99 (1% SOL'N) Viscosity: NOT PROVIDED Evaporation Rate & amp; Reference: NOT PROVIDED Solubility in Water: NOT PROVIDED Appearance and Odor: CLEAR, VISCOUS, AMBER COLORED SOLUTION - PRACTICALLY **ODORLESS TO AMINE ODOR** Corrosion Rate: NOT PROVIDED _____ Reactivity Data _____ Stability Indicator: YES Stability Condition To Avoid: FOODSTUFFS, REDUCING AGENTS AN D ACIDS. Materials To Avoid: BASIC MATERIALS, GALVANIZED OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS Hazardous Decomposition Products: NONE Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: CAN REACT WITH CAUSTIC (BASIC) MATERIALS TO LIBERATE HEAT. _____ Toxicological Information _____ Toxicological Information: SINGLE EXPOSURE (ACUTE) STUDIES INDICATE: ORAL-

FIFRA CATEGORY IV. DERMAL: FIFRA CATEGORY IV. INHALATION: FIFRA CATEGORY IV; NOT DOT POISONOUS. EYE IRRITATION: FIFRA CATEGORY III. SKIN IRRITATION: FIF RA CATEGORY IV. NO SKIN ALLERGY WAS OBSERVED IN GUINEA PIGS FOLLOWING REPEATED SKIN EXPOSURE. IN REPEAT DOSING STUDIES (6-MONTHS), DOGS FED MON 0139 EXHIBITED SLIGHT BODY WEIGHT CHANGES. FOLLOWING REP EATED SKIN EXPOSURE TO MON 0139, SKIN IRRITATION WAS THE PRIMARY EFFECT IN RABBITS.

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: > 5,620 PPM; PRACTICALLY NONTOXIC. ARTHROPODS: 48-HR OR AL 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 TRANSPORTATION. THIS PRODUCT IS NOT HAZARDOUS UNDER THE APPLICAB LE 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 PROVIDED

Other Information

Other Information: NOTE: FOR ADDITIONAL HUMAN EMERGENCY FIRST AID OR TREATMENT GUIDANCE, CALL COLLECT, DAY OR NIGHT (814) 694-4000.

Transportation Information

Responsible Party Cage: 76541 Trans ID NO: 157487 Product ID: ROUNDUP PRO HERBICIDE MSDS Prepared Date: 04/22/2000 Review Date: 06/16/2001 MFN: 6 Net Unit Weight: 48.7 LBS 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 THIS MODE OF TRANSPORTATION

HAZCOM Label

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

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