

MONSANTO CO -- ROUNDUP DRY PAK WATER SOLUBLE GRANULE HERBACIDE --
6840-01-399-0673

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

Product ID:ROUNDUP DRY PAK WATER SOLUBLE GRANULE HERBACIDE

MSDS Date:02/01/1994

FSC:6840

NIIN:01-399-0673

MSDS Number: BXCLS

=== Responsible Party ===

Company Name:MONSANTO CO

Address:800 N LINDBERGH BLVD

City:ST LOUIS

State:MO

ZIP:63167

Country:US

Info Phone Num:800-332-3111

Emerg

ency Phone Num:314-694-4000/800-424-9300(CHEMTREC)

CAGE:76541

=== Contractor Identification ===

Company Name:EHRlich J C CHEMICAL CO INC

Address:500 SPRING RIDGE DR

Box:City:READING

State:PA

ZIP:19612-3848

Country:US

Phone:610-372-9700/FAX: 610-378-9744

CAGE:8C885

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

===== Composition/Information on Ingredients =====

Ingred N

ame:GLYCINE, N-(PHOSPHONOMETHYL)- IN THE FORM OF MONOAMMONIUM
SALT

CAS:1071-83-6

RTECS #:MC1075000

Fraction by Wt: 93.96%

Other REC Limits:NONE RECOMMENDED

Ingred Name:INERT INGREDIENTS

Fraction by Wt: 6.04%

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 4613 MG/KG

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chr

onic:ACUTE: PRODUCT IS NO MORE THAN

SLIGHTLY TOXIC IF SWALLOWED, IF VAPORS/MISTS ARE INHALED OR IN SKIN
CONTACT; NON-IRRITATING ON SKIN CONTACT. CONTACT WITH EYES MAY
CAUSE IRRITATION. CONTAINS SODIUM SULF ITE, SULFITE-SENSITIVE
PERSONS MAY EXPERIENCE ALLERGIC SKIN/RESPIRATORY
REACTIONS.CHRONIC:NONE SPECIFIED BY MANUFACTURER

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER IS LISTED AS A CARCINOGEN OR SUEPECTED CARCINOGEN.

Effects of Over

exposure:EYES-PAIN, REDNESS, TEARING. NO OTHERS GIVEN BY
MANUFACTURER.

Medical Cond Aggravated by Exposure:ASTHMA, SULFITE-SENSITIVITY.

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

First Aid:EYES-IMMEDIATELY FLUSH WITH LOTS OF WATER FOR 15 MINUTES. GET
MEDICAL ATTENTION. INGESTED-IF CONSCIOUS, RINSE MOUTH WITH WATER,
THEN DRINK WATER TO DILUTE. GET MEDICAL ATTENTION. INHALED-REMOVE
TO FRE SH AIR. SEEK MEDICAL ATTENTION IF BREATHING DIFFICULTY
DEVELOP
S.

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

Flash Point:NONE

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

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE GEAR. THOROUGHLY CLEAN EQUIPMENT AFTER USE.

Unusual Fire/Explosion Hazard:NONE.

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

Spill Release Procedures:OBSERVE ALL PROTECTION AND SAFETY PRE

CAUTIONS

WHEN CLEANING UP SPILLS. COLLECT SPILLED MATERIAL AND/OR CONTAMINATED SOIL AND PLACE IN A NON-FERROUS METAL DRUM OR PLASTIC LINED FIBER DRUM AND DISPOSE OF IT IAW LOCAL, STATE AND FEDERAL REGULATIONS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT CONTAMINATE WATER, FOODSTUFFS, FEED OR SEED BY STORAGE OR DISPOSAL.

Other Precautions:AVOID CONTACT WITH SKIN, EYES OR CLOTHES. AVOID

BREATHING DUST. DO NOT APPLY DIRECTLY TO WATER, TO AREAS WHERE SURFACE WATER IS PRESENT OR TO INTERTIDAL AREAS BELOW THE MEAN HIGH WATER MARK. DO NOT CONTAMINATE WATER W/EQUIPMENT RINSE WATER.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE

WITH 29 CFR 1910.134 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:NO SPECIAL PRECAUTIONS ARE RECOMMENDED.

Protective Gloves:LATEX, RUBBER.

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS.

Other Protective Equipment:LONG-SLEEVED SHIRT, LONG PANTS, SHOES PLUS SOCKS. DLA-HMIS: EYE WASH STATION & SAFETY SHOWER AVAILABLE.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

EPA REGISTRY NUMBER: 524-436. PH OF 10% SOLUTION-3.77, 5% SOLUTION-3.86, 1% SOLUTION-3.85. MSDS PRESENTED BY CAGE 8C885 FOR CONTRACT NUMBER SP0450-95-M-8953.

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

HCC:T5

NRC/State Lic Num:NOT RELEVANT

Viscosity:NOT RELEVANT

Solubility in Water:APPRECIABLE

Appearance and Odor:WHITE, CRYSTALLINE GRANULAR MATERIAL.

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

Stability Indicator/Materials to Avoid:

YES
GALVANIZED OR UNLINED STEEL.
Stability Condition to Avoid:NONE.
Hazardous Decomposition Products:NONE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:WASTES RESULTING FROM USE OF THIS PRODUCT THAT
CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF IN A
LANDFILL APPROVED FOR PESTICIDE DISPOSAL OR IAW APPLICABLE LOCAL,
STATE AND FEDERAL R EGULATIONS.

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