

# MATERIAL SAFETY DATA SHEET

Manufactured by: NuFarm for:  
Maid Brands, Inc  
6008B North Lindbergh Blvd.  
Hazelwood, MO 63042 Product Information: (866) 247-6243

DO IT BEST<sup>®</sup>

## Grass & Weed Killer Concentrate

EPA Reg. No. 228-367-75111

Emergency Phone (Chemtrec) (800) 424-9300

Information: (800) 345-3330

Date Issued: 01/06/06

Supersedes: New

Product Code:: 3671-RIV

### 1. INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %	Common Name	OSHA PEL	ACGIH TLV
Glyphosate N-(phosphonomethyl) glysine, in the form of isopropylamine salt	864 1-94-0	18.00	IPA Sale of Glyphosate	N/A	N/A
Inert Carrier and Surfactant	N/A	82.09	Inert Ingredients	N/A	NA
		100.00%			

### 2. HEALTH DATA

Dermal/Eye: Yes      Oral: Yes      Inhalation: No

#### PRIMARY ROUTE OF ENTRY:

Eye irritation. Skin irritation. Irritation to nose and throat from vapors.

#### SYMPTOMS OF OVEREXPOSURE:

#### ACUTE HEALTH EFFECTS

Avoid inhaling vapors or mist. May irritate the respiratory tract or cause dizziness.

#### Inhalation:

May cause eye irritation.

#### Eyes:

May cause mild skin irritation.

#### Skin:

This product is considered "practically nontoxic". Small amounts that might be swallowed incidental to normal handling operations are not likely to cause injury. Ingestion of large doses may cause gastrointestinal irritation or ulceration and nausea.

#### Ingestion:

#### TOXICOLOGICAL DATA

Acute Oral LD50:  
Acute Dermal LD50:  
Acute Inhalation LC50:  
Eye Irritation:  
Dermal Irritation:  
Dermal Sensitization:

1 .4g/kg (rats)  
>2 g/kg (rabbits)  
>0.23 mg/1 (rabbits)  
severe irritation (rabbits)  
minimal skin irritant (rabbits)  
not a sensitizer (guinea pigs)

**MEDICAL CONDITIONS POSSIBLY  
AGGRAVATED BY EXPOSURE:**

Skin exposure may aggravate existing skin condition. Exposure to mist may aggravate existing respiratory conditions.

**CHRONIC HEALTH EFFECTS:**

NO NO NO

Agency Listing Carcinogen NTP

IARC

OSHA

### 3. FIRST AID MEASURES

<b>EYE CONTACT:</b>	Immediately flush with plenty of water. Call a physician if irritation persists. Remove product from skin or clothing.
<b>INHALATION:</b>	Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth to mouth. Get medical attention.
<b>INGESTION:</b>	This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk.
<b>SKIN CONTACT:</b>	If contacted with the concentrate, wash with plenty of soap and water. Get medical attention. If contact is made after this product has been diluted, wash with plenty of soap and water. Rinse thoroughly.

### 4. FIRE FIGHTING MEASURES

<b>FLASH POINT (F):</b>	>200°F
<b>FLASH POINT METHOD USED:</b>	
<b>EXTINGUISHING MEDIA:</b>	Tag closed cup. Use water (flood with water), dry chemical, CO <sub>2</sub> , or alcohol foam.
<b>COMBUSTION PRODUCTS:</b>	Combustion for this product may produce noxious or toxic fumes.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Firefighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	None

## 5. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Always wear the suggested safety equipment when cleaning spills. Small spills: Absorb product with an inert absorbent such as clay granules or vermiculite. Large spills: Evacuate area. Surround with impervious material such as dirt to prevent run-off and possible environmental contamination. Vacuum material into salvage container. Contain all affected material in a closed, marked container for proper disposal.

## 6. HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid contact with eyes, skin or clothing. Store this product in its original container and in a secured storage area. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

### WORK HYGIENIC PRACTICE:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

## 7. EXPOSURE CONTROL/PERSONAL PROTECTION

### RESPIRATORY PROTECTION:

Respiratory protection is not normally required. Use a NIOSH/MSHA approved respirator when directly exposed to mist.

### VENTILATION:

No special precautions are recommended.

### PROTECTIVE GLOVES:

Rubber or chemical-resistant gloves. (optimal)

### EYE PROTECTION:

Wear splash goggles or face shield when mixing or loading. (Optional)

### OTHER PROTECTIVE EQUIPMENT:

Long sleeved shirt, long pants, socks and shoes.

## 8. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE AND ODOR:

Light Amber liquid. No significant odor.

### SOLUBILITY IN WATER:

100% in water.

### BOILING POINT (F):

2 12°F

### VAPOR PRESSURE (mmHg@20C):

25 to 30mm Hg

### SPECIFIC GRAVITY (H20=1)

1.070

### pH:

4.8

### FREEZING POINT:

32°F

### POUNDS PER GALLON:

8.91

## 9. STABILITY AND REACTIVITY

### STABILITY:

Stable

### CONDITIONS TO AVOID:

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

### INCOMPATIBILITY:

Avoid acids and bases.

HAZARDOUS BYPRODUCTS:

None

**10. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL FATE**

Glyphosate is moderately persistent in soil. It has an estimated half-life of 47 days, with a relatively large variance. Soil microbes are primarily responsible for its degradation.

**ECOTOXICITY:**

Glyphosate is slightly toxic to birds, practically non-toxic to fish, non-toxic to honeybees. May be toxic to aquatic invertebrates.

**11. DISPOSAL CONSIDERATIONS**

**PRODUCT DISPOSAL:**

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 container retains vapor and product residue. Observe all labeled safeguards until container is destroyed. **CONTAINER DISPOSAL:** Do not reuse container. Triple rinse container. Then puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke

**12. TRANSPORTATION INFORMATION**

DOT REGULATED CONTAINER SIZE:

N/A

HAZARD CLASS:

Compound, Weed Killing, Liquid, N.O.I.B.N.

UN NUMBER:

PACKING GROUP:

GUIDE NUMBER:

PROPER SHIPPING NAME:

**13. REGULATORY INFORMATION**

SARA TITLE III; Section 311/312:

An immediate health hazard.

SARA TITLE III; SECTION 313-This product contains the following substances subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

REPORTABLE QUANTITY (RQ):

N/A

N/A

HMIS INFORMATION	
HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PROTECTIVE:	E

NFPA INFORMATION	
TOXICITY:	1
FIRE:	1
REACTIVITY:	0
SPECIAL:	N

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