

Material Safety Data Sheet

Product Name: Glyphomate 41 Weed & Grass Killer & Aquatic Herbicide

MSDS No.: 957-6

Version No.: 001

EPA Registration No.: 2217-847

1. Basic Information:

Manufacturer: PBI/Gordon Corporation
Address: 1217 West 12th Street
City, State Zip: Kansas City, MO 64101-1407
Information Contact: Environmental, Health, & Safety Dept.
Information Telephone Number: (816)421-4070
Emergency Contact: Chemtrec
Emergency Telephone Number: (800)424-9300



| | |
|---|------------------|
| 2 | Health |
| 1 | Flammability |
| 0 | Reactivity |
| B | Pers. Protection |

Last Update: 11/14/2001

Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

2. Ingredients:

Trade Secret (ND = Not Disclosed)

| CAS No. | Chemical Name | % Range | EHS | | IARC | | SARA 313 | | OSHA | ACGIH | Other |
|----------|---|---------|-----|-------|------|-----|----------|--------|------|-------|-------|
| | | | NTP | SUB Z | 313 | PEL | TLV | Limits | | | |
| 38641940 | Isopropylamine salt of N-(phosphonomethyl) glycine (Glyphosate) | 41.00% | N | N | N | N | N | NI | NI | NI | |

3. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

4. First Aid Measures:

Route(s) of Entry:

Eyes, Skin, Ingestion

Health Hazards (Acute and Chronic):

NI

Signs and Symptoms:

Ingestion of large amounts of similar products has been reported to product gastrointestinal discomfort with nausea, vomiting, and diarrhea.

Medical Conditions Generally Aggravated by Exposure:

NI

Emergency First Aid Procedure:

If in eyes: · Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. · Call a poison control center or doctor for treatment advice.

If on skin or clothing: · Take off contaminated clothing. · Rinse skin immediately with plenty of water for 15 - 20 minutes. · Call a poison control center or doctor for treatment advice.

If swallowed: · Call a poison control center or doctor immediately for treatment advice. · Have person sip a glass of water if able to swallow. · Do not induce vomiting unless told to do so by a poison control center or doctor. · Do not give anything by mouth to an unconscious person.

Other Health Warnings:

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

5. Fire Fighting Measures:

Flash Point: 131.4°F **F.P. Method:** PM Closed Cup

Fire Fighting Measures (Continued)

Lower Explosive Limit: NI

Upper Explosive Limit: NO

Fire Extinguishing Media:

Foam, CO₂, Dry chemical, Water. The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H, and, therefore, would not be classified as a combustible liquid.

Special Fire Fighting Procedures:

Wear positive pressure breathing apparatus, and full protective clothing. Stay upwind and out of low areas.

Unusual Fire and Explosion:

Burning product may produce irritating or poisonous gases. Runoff from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.

6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Do not touch spilled material. See Section 8 for Personal Protective Equipment. Contain and absorb spilled material on Dri-Rite, sand or other inert absorbent. Collect into drums; cover and label for disposal. Flush area with water if possible.

7. Handling and Storage:

Precautions to be Taken:

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

STORAGE: STORE ABOVE 10° F (12°C) TO KEEP PRODUCT FROM CRYSTALLIZING. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room (68°F or 20°C) for several days to allow crystals to redissolve, then shake well before using.

Other Precautions:

PHYSICAL OR CHEMICAL HAZARDS:

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Handling and Storage (Continued)

Combustible. Do not use or store near heat or open flame.

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

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.

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Local ventilation.

Personal Protective Equipment:

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

9. Physical and Chemical Properties:

Boiling Point: NI

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): NI

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): NI

Specific Gravity (H₂O = 1): 1.15200

Solubility in Water: Infinite

Appearance and Odor: Clear, yellow liquid. Faint detergent-like odor.

Other Information:

pH: 6.0 - 8.0

10. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

None known

Decomposition/By-Products:

In fire conditions, CO; CO₂; NO_x

Hazardous Polymerization:

Will not occur

11. Toxicological Information:

Acute Oral Toxicity/Rat: >2,000 mg/kg

Acute Dermal Toxicity/Rat: >2,000 mg/kg

Acute Inhalation/Rat: >2.05 mg/L

Primary Eye Irritation/Rabbit: Mild irritant

Primary Skin Irritation/Rabbit: Not an irritant

Dermal Sensitization: Not a contact sensitizer

12. Ecological Information:

ENVIRONMENTAL HAZARDS:

Do not contaminate water when disposing of equipment washwater.

Treatment of aquatic weeds can result in oxygen depletion or loss due to

Ecological Information (Continued)

decomposition of dead plants. This oxygen loss can cause fish suffocation. In case of spill or leak, soak up with an absorbent and remove to a landfill.

13. Disposal Considerations:

PESTICIDE 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.

CONTAINER DISPOSAL: Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed. Do not reuse container. For Bulk Containers - Triple rinse emptied bulk container (or equivalent). Then offer for recycling or reconditioning, or dispose of in a manner approved by state and local authorities. For Non-Returnable/Refillable Containers - Do not reuse container. Triple rinse container (or equivalent), 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.

14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Freight Class: Herbicides, NOI - NMFC #50320

In our current available sizes, this product does not qualify as a Hazardous Material.

15. Regulatory Information:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard

SECTION 313 TOXIC CHEMICALS: None

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

16. Other Information:

REASON FOR ISSUE: New MSDS in the ANSI Z400.1-1998 format

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations

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Other Information (Continued)

of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.