

MATERIAL SAFETY DATA SHEET

In Case of Emergency, Call
Poison Control: 800-222-1222

I. PRODUCT IDENTIFICATION

Product Name: Gly Pho-Sel Pro 41%
Active ingredients: Glyphosate (41.0%)
Chemical Name: N-(phosphonomethyl)glycine, Isopropylamine salt

II. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Glyphosate	38641-94-0	41.0%

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Warning. Causes substantial but temporary eye injury. Harmful if inhaled or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before re-use.

PHYSICAL OR CHEMICAL HAZARDS

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.

POTENTIAL HEALTH HAZARDS

Eye: Causes temporary eye irritation.
Skin: May cause slight irritation upon prolonged contact.
Inhalation: Brief inhalation exposure is not likely to cause adverse effects.
Ingestion: Due to low toxicity, no significant adverse effects are expected if small amounts are swallowed.

Medical conditions generally aggravated by exposure: None known.

ENVIRONMENTAL HAZARDS

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 when cleaning equipment or disposing of equipment washwaters or rinsate.

IV. FIRST AID MEASURES

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. 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 Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a Poison Control Center or doctor for further 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 by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

V. FIRE FIGHTING MEASURES

Flash point: Non-flammable

Flammable Limits (LFL-UFL): Not Applicable

Autoignition Temperature: None known.

Extinguishing Media: CO₂, water, water fog, dry chemical, and chemical foam.

Fire and Explosion Hazards: Fire may produce toxic, irritating gases. Pesticide particulates may become airborne.

Fire Fighting Procedures: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH-approved or equivalent) and full protective gear. Runoff should be contained.

VI. ACCIDENTAL RELEASE MEASURES

Comply with fire, explosion, safety precaution, personal protective equipment sections of this MSDS before proceeding with cleanup. Absorb material with inert material such as "oil dry" and place in suitable container. Keep out of streams, water supplies, and sewers. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for complete regulations concerning reporting requirements.

VII. HANDLING AND STORAGE

Keep container closed when not in use. Protect containers from abuse and extreme temperatures. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Minimize body contact with this product as well as all chemicals in general.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to Section III of this MSDS.

Engineering Controls: When handlers use closed system, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks, and
- Protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid
Odor:	Slight
pH:	4.4 – 5.0
Flash Point:	Not flammable
Freezing Point:	-14°C
Density:	1.1655 g/mL @ 20°C
Solubility in Water:	Miscible
%Volatile (by weight):	Approximately 50%

X. STABILITY AND REACTIVITY

Conditions to avoid:	None known.
Chemical stability:	Stable when stored under normal conditions.
Hazardous decomposition products:	Hydrogen gas may be generated via contact with galvanized or unlined mild steel equipment.
Incompatibility with other materials:	Contact with galvanized or unlined steel (except stainless steel) may initiate decomposition and generation of hydrogen gas that can be highly combustible.
Polymerization:	Not known to occur.

XI. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	Oral LD ₅₀ (rats): >5000 mg/kg
Acute dermal toxicity:	Dermal LD ₅₀ (rabbits): >5,000 mg/kg
Acute inhalation toxicity:	Inhalation LC ₅₀ (rats): 3.28 mg/L
Eye irritant:	Rabbit – severe irritant
Skin irritation:	Rabbit – slight irritant
Sensitization:	Not sensitizing to skin

Medical conditions aggravated by exposure: None known.

Carcinogenicity:	
ACGIH:	Not listed
IARC:	Not listed
NTP:	Not listed
OSHA:	Not listed

XII. 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. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

Container Disposal: Bulk and Minibulk:
When the container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase, or to an alternate location designated by the registrant at the time of purchase of this product. If not returned to the point of purchase or to a designated location, triple rinse or pressure rinse the empty container and offer for recycling if available.

For all other Non-Returnable/Refillable Containers:
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.

XIII. TRANSPORT INFORMATION

DOT Proper Shipping Name:	Compound, Tree or Weed Killing, Liquid, NOIBN (Glyphosate)
DOT Hazard Class or Division:	None
DOT UN/NA Number:	None
DOT Packing Group:	NA
DOT Emergency Response Guide:	NA
Label Required:	None
National Fire Protection Association Rating	
Health:	1
Flammability:	1
Reactivity:	0

XIV. REGULATORY INFORMATION

Canada:

WHMIS information: This product is a Pest Control Product and is not regulated as a Controlled Product under the Hazardous Products Act (HPA). However, for reference purposes only, this product would have the following WHMIS Classification if it were regulated as a Controlled Product under the HPA: Class D2B (Materials causing other toxic effects, Toxic Material).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

United States:

California Proposition 65 information: This product does not contain any chemicals known to the state of California to cause cancer or reproductive harm.

EPA/CERCLA Reportable Quantity (RQ): None known.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not known to contain any Toxic Chemical constituents.

XV. OTHER INFORMATION

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