

# SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)



## 1. IDENTIFICATION

**PRODUCT NAME:** Glyphosate Plus  
**DESCRIPTION:** A liquid herbicide.  
**EPA Reg. No.:** 83520-7

**COMPANY IDENTIFICATION:**  
Tacoma Ag, LLC  
PO Box 14073  
Durham, NC 27713

## 2. HAZARD IDENTIFICATION



**WARNING**  
Harmful if inhaled  
Causes eye irritation

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Common Name</u>  | <u>Chemical Name</u>                            | <u>CAS #</u> | <u>Composition</u> |
|---------------------|---|--------------|--------------------|
| Glyphosate IPA Salt | N-(phosphonomethyl)glycine, isopropylamine salt | 38641-94-0   | 41.0%              |

## 4. FIRST AID MEASURES

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

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a doctor or poison control center if you feel unwell.

## 5. FIREFIGHTING MEASURES

**Flash Point:** Not flammable

**Flammable Limits:** Not determined.

**Fire and Explosion Hazards:** Thermal decomposition during a fire can produce fumes and irritating gases.

**Extinguishing Medium:** Water spray, dry foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate the area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage with excessive water runoff.

**Hazardous Combustion Products:** Carbon monoxide, nitrogen oxides, and phosphorus oxides.

**NFPA Ratings:** Health – 1 / Flammability – 1 / Reactivity - 0

## 6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this SDS. Isolate hazard area. Keep unnecessary personnel from entering.

**Small Spills:** Contain small spill by diking with a suitable absorbent material. Sweep up absorbed spill and place material in appropriate recovery drums for disposal.

**Large Spills:** Contain large spill by diking with a suitable absorbent material and recover for disposal. After removal, neutralize the spill area, tools, and equipment with a dilute alkaline solution (soda ash or lime) followed by an appropriate alcohol (methanol, ethanol or isopropanol). Wash the spill area, tools, and equipment with strong soap and water solution. Absorb any excess liquid and add to the recovery drums of waste already collected. Dispose all wastes as described in Section 13.

## 7. HANDLING AND STORAGE

**Keep out of reach of children.**

**Handling:** Use only in a well ventilated area. Avoid breathing spray mist. Avoid contact with eyes or clothing. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Storage:** Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Proper ventilation is required when handling or using this product. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Protective Clothing:** Wear long-sleeved shirt and long pants, shoes plus socks, and protective eyewear. When handling in enclosed areas, when large quantities of mists are generated, or prolonged exposure is possible, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

**General:** Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Colorless to pale yellow liquid

**Odor:** Mild amine

**Molecular Weight:** 228.2

**pH:** 4.57 (1% in water)

**Viscosity:** 24.1 cP @ 25°C; 13.0 cP @ 40°C

**Density:** 1.167 gm/cm<sup>3</sup> @ 25°C; 1.165 gm/cm<sup>3</sup> @ 40°C

**Solubility:** Miscible in water

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Avoid excessive heat and fire.

**CHEMICAL STABILITY:** Stable under all normal use and storage conditions. May decompose if heated.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Reacts with galvanized steel or unlined steel to produce hydrogen gas.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, nitrogen oxides, and phosphorus oxides.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**ORAL TOXICITY (rat LD<sub>50</sub>):** > 5,000 mg/kg

**DERMAL TOXICITY (rabbit LD<sub>50</sub>):** > 5,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** 2.6 mg/L (4-hour)

**EYE IRRITATION:** Rabbit – Mildly irritating; clears in 7 days

**SKIN IRRITATION:** Rabbit – Mildly irritating

**SKIN SENSITIZATION:** Not a contact sensitizer

**CARCINOGENICITY:**

**EPA:** Not Listed

**ACGIH:** Not Listed

**NTP:** Not Listed

**IARC:** Group 2A<sup>1</sup>

**OSHA:** Not Listed

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**REPRODUCTIVE TOXICITY:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

Slightly to practically non-toxic to birds, fish, aquatic invertebrates, and bees. Toxic to non-target terrestrial and aquatic plant species. Keep out of waterways.

Glyphosate is considered to be non-persistent in soils with a median half-life ranging from 1.85 to 2.06 days. It is strongly absorbed to soils and does not pose a threat to groundwater contamination. Studies indicate that glyphosate has a very low potential for bioaccumulation.

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed must 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 cleaned, reconditioned, or destroyed.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

## 14. TRANSPORT INFORMATION

**US DOT:**

Not regulated by DOT.

<sup>1</sup> Carcinogenicity: Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but, in the expert opinion of the Joint Glyphosate Task Force, this classification as a carcinogen is not warranted.

## 15. REGULATORY INFORMATION

### **FIFRA –**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

#### **PRECAUTIONARY STATEMENTS**

##### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** Harmful if inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes or clothing.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

##### **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.

##### **PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined containers. **DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR TANKS.** This product or 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.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

#### **SARA Title III – Section 302 Extremely Hazardous Substances**

Not listed

#### **SARA Title III – Section 311/312 Hazard Categories**

Immediate

#### **SARA Title III – Section 312 Threshold Planning Quantity**

N/A

#### **SARA Title III – Section 313 Reportable Ingredients**

None

#### **CERCLA Reportable Quantity (RQ) –**

None

#### **CALIFORNIA PROP 65 STATUS –**

This product does not contain any chemical known to the state of California to cause cancer or reproductive harm.

#### **CANADA –**

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

## 16. OTHER INFORMATION

DISCLAIMER: The information herein is presented in good faith and believed to be accurate as on the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with Federal, State and Local laws and regulations.

SDS Version: 4.1 (conversion from MSDS)

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