

## SAFETY DATA SHEET

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### SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** TIMBERLINE HERBICIDE

**PCP Reg. No.:** 33456

**Product use:** Herbicide

**Supplier's name and address:**

Albaugh, LLC  
1525 NE 36th Street  
Ankeny, IA 50021 USA  
1-800-247-8013

**Emergency Telephone #:**

1-800-424-9300 (CHEMTREC)

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### SECTION 2 — HAZARDS IDENTIFICATION

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**Physical Hazards:** None

**Health Hazards:** Acute Toxicity (Inhalation) - Category 4  
Eye Irritation - Category 2B

**Environmental Hazards:** Hazardous to aquatic environment, acute - Category 2

**Signal Word:** WARNING

**Hazard Statements:** Harmful if swallowed. Harmful if inhaled. Causes eye and skin irritation. Toxic to aquatic life.



**Precautionary Statements:** Avoid contact with skin, eyes and clothing. Wear goggles or face shield during mixing/loading. Wear a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. After use, wash hands and other exposed skin. Remove and wash contaminated clothing before reuse. Avoid breathing spray mist. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.

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### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

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| Hazardous Component  | CAS No.    | Percentage (%) |
|----------------------|------------|----------------|
| Glyphosate-potassium | 70901-12-1 | 47-50          |

| Content Listed on Product Label                           |
|---|
| Glyphosate, present as potassium salts ..... 540 g a.e./L |

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### SECTION 4 — FIRST AID MEASURES

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**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**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 centre or doctor for treatment advice.

Take the container, label or product name and Pest Control Product Registration Number with you when calling a poison control center or doctor or going for treatment.

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### SECTION 5 — FIRE FIGHTING MEASURES

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**Extinguishing Media:** Water fog, alcohol foam, carbon dioxide, dry chemical.

**Special Firefighting Procedures:** Firefighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Minimize and contain water runoff.

**Flash Point:** .....N/A

**Conditions of Flammability:** .....None

**Hazardous Decomposition Products:** ...This product reacts with galvanized steel or unlined steel (except stainless steel) to produce hydrogen gas that may form a highly combustible gas mixture which could flash or explode. Decomposition under fire conditions may produce gases such as oxides of carbon, nitrogen and phosphorous.

**National Fire Protection Association (NFPA) Hazard Rating:**

**Rating for this product:**      **Health: 2**                      **Flammability: 1**                      **Reactivity: 0**

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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## SECTION 6 — ACCIDENTAL RELEASE MEASURES

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Use safety equipment and procedures appropriate to the size of the spill. Keep unnecessary people away. Avoid runoff to natural waters and sewers. Surround and absorb spills with inert material such as perlite, sawdust, clay granules, vermiculite, sand or dirt. Contain all affected material in a closed, labeled container for proper disposal. Isolate from other waste materials. Clean contaminated area such as hard surfaces with detergent and water, collecting cleaning solution for proper disposal. Large spills to soil or similar surfaces may necessitate removal of top soil.

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## SECTION 7 — HANDLING AND STORAGE

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**Handling:** Avoid contact with skin, eyes and clothing. Wear goggles or face shield during mixing/loading. Wear coveralls over a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. After use, wash hands and other exposed skin. Remove and wash contaminated clothing before reuse. Avoid breathing spray mist. Do not eat, drink or smoke when using this product.

**Storage:** Store product in original container only. Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. May be stored at any temperature. Shake well before using.

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## SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### Control Parameters:

| Component            | TWA* | STEL* | Note       |
|----------------------|------|-------|------------|
| Glyphosate-potassium | N/E  | N/E   | None found |

\*Time Weighted Average, 8-hour unless otherwise noted

\*\*Short Term Exposure Level

N/E – Not Established

**Engineering Controls:** Use only outdoors or in a well-ventilated area.

**Personal Protective Equipment:** Goggles or face shield, coveralls, long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal.

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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**Note:** Physical data are typical values but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification. If no value is determined for the formulation, the value listed is the most relevant value of the predominate ingredient(s).

**Physical state and appearance:** ..... Clear, yellow, viscous liquid  
**Odor:** ..... Odorless to slight amine-like odor  
**Odor Threshold:** ..... No data  
**pH:** ..... 4.3-5.3  
**Melting Point:** ..... No data  
**Freezing Point:** ..... < 32°F / 0°C  
**Boiling Point:** ..... No data  
**Flash Point:** ..... Will not flash  
**Evaporation Rate:** ..... No data  
**Flammability:** ..... No data  
**Explosive Limits:** ..... No data

**Vapor Pressure:** .....  $1.75 \times 10^{-7}$  mmHg ( $1.31 \times 10^{-5}$  Pa) @ 77°F / 25°C (free  
Glyphosate acid).  
**Vapor Density:** ..... (Air=1.0): N/Ap  
**Density:** ..... 1.33-1.37 g/mL  
**Solubility:** ..... The product is miscible with water.  
**Partition Coefficient:** ..... No data  
**Auto Ignition Temperature:** ..... No data  
**Decomposition Temperature:** ..... No data  
**Viscosity:** ..... 16 centistokes @ 68°F / 20°C; 8 centistokes @ 104°F / 40°C.

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## SECTION 10 — STABILITY AND REACTIVITY

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**Reactivity:** This product reacts with galvanized steel or unlined steel (except stainless steel) to produce hydrogen gas that may form a highly combustible gas mixture which could flash or explode.

**Chemical Stability:** Stable under normal handling and storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur. This product can react with caustic (basic) materials to liberate heat. This is not a polymerization but rather a chemical neutralization in an acid base reaction.

**Conditions to Avoid:** Excessive heat. Do not store near heat or flame

**Incompatible Materials:** Avoid contact with strong acidic, basic or oxidizing agents. This product reacts with galvanized steel or unlined steel (except stainless steel) to produce hydrogen gas that may form a highly combustible gas mixture which could flash or explode.

**Hazardous Decomposition Products:** Under fire conditions, may produce gases such as oxides of carbon, nitrogen and phosphorous.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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This section is intended for use by toxicologists and other health professionals. Data obtained on similar products and on components are summarized below.

**Likely Routes of Exposure:** Inhalation, ingestion, skin and eye contact.

Acute oral toxicity Rat, LD<sub>50</sub> (mg/kg): ..... >5000

Acute dermal toxicity Rabbit, LD<sub>50</sub>(mg/kg): ..... >5000

Acute inhalation toxicity Rat, LC<sub>50</sub>(mg/L): ..... >1.20 (4-hour)

Skin irritation Rabbit: ..... Moderate

Eye irritation Rabbit: ..... Moderate

Skin sensitization Guinea Pig: ..... Not considered as a contact dermal sensitizer

Mutagenicity: ..... Not mutagenic

Chronic effects/carcinogenicity: ..... NOAEL toxicity: ~ 8,000 mg/kg diet. Target organs/systems: eyes.  
Other effects: decrease of body weight gain, histopathologic effects. NOEL tumour: > 20,000 ppm. Tumours: none.

Toxicity to reproduction/fertility: ..... NOAEL toxicity: 10,000 ppm. NOAEL reproduction: > 30,000 mg/kg diet. Target organs/systems in parents: none. Other effects in parents: decrease of body weight gain. Target organs/systems in pups: none. Other effects in pups: decrease of body weight gain. Effects on offspring only observed with maternal toxicity.

Developmental toxicity/teratogenicity: ... Rat, oral, 6 - 19 days of gestation: NOAEL toxicity: 1,000 mg/kg body weight. NOAEL development: 1,000 mg/kg body weight. Other effects in mother animal: decrease of body weight gain, decrease of survival. Developmental effects: weight loss, post-implantation loss, delayed ossification. Effects on offspring only observed with maternal toxicity. Rabbit, oral, 6 - 27 days of gestation: NOAEL toxicity: 175 mg/kg body weight. NOAEL development: 175 mg/kg body weight. Target organs/systems in mother animal: none. Other effects in mother animal: decrease of survival. Developmental effects: none.

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## SECTION 12 — ECOLOGICAL INFORMATION

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This section is intended for use by eco-toxicologists and other environmental specialists. Data obtained on similar products and on components are summarized below.

### Ecotoxicity:

#### Aquatic Toxicity:

|                          |  |         |
|--------------------------|--|---------|
| Rainbow trout: .....     | 96-Hour LC <sub>50</sub> (mg/L) .....  | >3.1    |
| Bluegill sunfish: .....  | 96-Hour LC <sub>50</sub> (mg/L) .....  | >1000   |
| Daphnia: .....           | 48-Hour EC <sub>50</sub> (mg/L) .....  | >930    |
| Algae: Selenastrum ..... | 72-Hour EC <sub>50</sub> (mg/L) .....  | 35-54   |
| Algae: Navicula .....    | 120-Hour EC <sub>50</sub> (mg/L) ..... | No data |

#### Avian toxicity

|                       |   |                       |
|-----------------------|---|-----------------------|
| Bobwhite quail: ..... | 5-d Dietary LC <sub>50</sub> (mg/kg)..... | >4640 Glyphosate acid |
| Mallard duck: .....   | 5-d Dietary LC <sub>50</sub> (mg/kg)..... | >4640 Glyphosate acid |

#### Arthropod toxicity:

|                  |   |
|------------------|---|
| Honey bee: ..... | LD <sub>50</sub> >250 µg/bee (48 h contact) Glyphosate acid |
|                  | LD <sub>50</sub> >200 µg/bee (96 h oral) Glyphosate acid    |

#### Soil organism toxicity, invertebrates:

|                 |                        |
|-----------------|------------------------|
| Earthworm:..... | >10,000 mg/Kg dry soil |
|-----------------|------------------------|

**Persistence and Degradability:** Glyphosate is degraded microbially to aminomethyl phosphonic acid (AMPA), which is further degraded to simpler molecules. Representative field soil half-lives range from 1 to 130 days depending on soil and climatic conditions.

**Bioaccumulation Potential:** Negligible.

**Mobility in Soil:** Glyphosate and AMPA are strongly adsorbed to soil. Essentially immobile.

**Other Adverse Effects:** No data.

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## SECTION 13 — DISPOSAL CONSIDERATIONS

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For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Disposal should be made in accordance with federal, provincial and local regulations.

Do not reuse container for any purpose. If applicable, return container in accordance with return program. If a recyclable container, dispose of at a container collection site. Contact local distributor, dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site, triple or pressure rinse the empty container adding rinsings to spray tank, and make container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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## SECTION 14 — TRANSPORTATION INFORMATION

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The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

### **CANADA:**

#### **TDG Classification – Road/Rail:**

Not regulated for transport by road/rail

### **UNITED STATES:**

#### **DOT Classification – Ground:**

Non Regulated

#### **IMDG Water Transportation:**

Non Regulated

### **IATA:**

Non Regulated

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## SECTION 15 — REGULATORY INFORMATION

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This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

**WARNING - EYE AND SKIN IRRITANT**

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## SECTION 16 — OTHER INFORMATION

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This Safety Data Sheet (SDS) is designed to comply with the Globally Harmonized System (GHS) of chemical hazard classification. The information given here is not necessarily exhaustive but is representative of relevant, reliable data. Follow all local/regional/national/international regulations.

**HMIS Rating:** 2 Health; 1 Flammability; 0 Reactivity

0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE Pest Management Regulatory (PMRA)- APPROVED PRODUCT LABELING (attached to and accompanying the

product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by product labeling and provincial legislation, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the PMRA-approved label.

**Prepared by:** Albaugh, LLC

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