

# TIGRIS™ GLUFOSINATE 280 SL

## SAFETY DATA SHEET EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

### 1. IDENTIFICATION

**PRODUCT NAME:** Tigris Glufosinate 280 SL

**DESCRIPTION:** Liquid herbicide

**EPA Reg. No.:** 92647-13

**COMPANY IDENTIFICATION:** Tigris, LLC  
P.O. Box 250  
10025 Hwy. 264 Alternate  
Middlesex, NC 27557

### 2. HAZARD IDENTIFICATION

#### DANGER

May damage fertility of the unborn child (H360)

May cause damage to organs through prolonged or repeated exposure (H371)

Very toxic to aquatic life with long-lasting effects (H400+H410)



#### HAZARD CLASSIFICATION

##### Health Hazards

Reproductive toxicity  
Specific target organ toxicity, repeated

##### Category

1B

2

##### Physical Hazards

None

##### Category

-

##### Environmental Hazards

Hazardous to the Aquatic Environment – Chronic (long-term)  
Hazardous to the Aquatic Environment – Acute (short-term)

##### Category

1

1

#### HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

#### PRECAUTIONARY STATEMENTS

Do not handle until all safety precautions have been read and understood.  
(P202)

Wear protective clothing as described in Section 8 of this document. (P280)

Wash hands and skin thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product. (P270)

Do not breathe mist / vapors / spray. (P260)

**IF exposed or concerned:** Call a POISON CENTER / doctor for treatment

advice. (P308+P311)

Store locked up. (P405)

Avoid release to the environment not in accordance with the product label.

(P273)

Collect spillage. (P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS#	Composition
Glufosinate-ammonium	Ammonium (±)-2-amino-4-(hydroxymethylphosphinyl)butanoate	77182-82-2	24.5%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the poison control center at **1-800-222-1222**.

**NOTE TO PHYSICIAN:** If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration.

### 5. FIREFIGHTING MEASURES

**Flash Point:** no data available

**Fire and Explosion Hazards:** In the event of fire and/or explosion do not breathe fumes. Risk of ignition.

**Extinguishing Medium:** Water spray, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>). Avoid high volume water jet to prevent environmental damage from excessive water runoff.

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

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff.

**Hazardous Combustion Products:** oxides of carbon and sulfur

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



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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

**Environmental Precautions:** Prevent material from entering any waterways or low areas. Do not flush to drain or soil. Contain contaminated water. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**Spill Cleanup:** Clean up spill immediately, observing precautions in Section 8. Prevent further leakage or spillage if safe to do so. For small spills: absorb spill with sand, clay or other inert material. For large spills: recover free product and dike for later disposal. Absorb remaining spill with inert material and place in suitable container for disposal. Prevent material from entering sewers, waterways, or low areas. Dispose of in accordance with local regulations.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Storage:** Do not use or store near heat or open flame. Keep the container tightly closed and dry in a cool, well-ventilated place. Storage temperature should not exceed 125°F. If storage temperature for bulk A357.01 is below 32°F, the material should not be pumped until its temperature exceeds 32° F. Protect against direct sunlight.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Ensure adequate ventilation.

**Protective Clothing:** Applicators and other handlers must wear: long-sleeved shirt and long pants; chemical resistant footwear plus socks; chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils; protective eyewear; and a chemical resistant apron (when mixing/loading or cleaning equipment).

**General:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** dark pink liquid

**Odor:** mildly bitter

**Melting / Freezing point:** no data available

**Boiling Point / Boiling Range:** no data available

**Flammability:** not flammable

**Flammability Limits (upper/lower):** not applicable

**Flash Point (closed cup):** no data available

**Auto-ignition Temperature:** no data available

**Decomposition Temperature:** no data available

**pH:** 5-6 (1% aq.)

**Kinematic Viscosity:** 185 cP @ 25°C  
95.7 cP @ 39°C

**Solubility:** no data available

**Partition coefficient:** no data available

**Vapor Pressure:** no data available

**Density:** 9.5-9.8 lbs./gal.

**Relative Vapor Density:** no data available

**Particle Characteristics:** no data available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** open flames, hot surfaces, and sources of ignition

**CHEMICAL STABILITY:** Stable at normal temperatures and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents, strong acids and bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** oxides of carbon and sulfur

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

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

**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 2,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 3.133 mg/L (4-hour)

**EYE IRRITATION:** non-irritating (rabbit)

**SKIN IRRITATION:** non-irritating (rabbit)

**SKIN SENSITIZATION:** not a contact sensitizer

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**EPA:** Not likely to be carcinogenic to humans (glufosinate)

**MUTAGENIC TOXICITY:** Animal and bacterial testing did not show any mutagenic effects

**REPRODUCTIVE TOXICITY / TERATOGENICITY:** Animal testing with the active ingredient suggests postnatal developmental toxicity at the highest dose tested.

**OTHER TOXICITY:** Target organ effects include respiratory system, eyes, skin, and central nervous system.



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## 12. ECOLOGICAL INFORMATION

This pesticide is toxic to vascular plants.

### The following information is for the active ingredient, Glufosinate:

Fish (96h LC50):	> 2.42 mg/L
Fish (NOAEC):	0.83 mg/L
Aquatic invertebrate (48h EC50):	0.5 mg/L
Aquatic invertebrate (NOAEC):	0.35 mg/L
Blue-green algae (96h IC50):	0.072 mg/L
Blue-green algae (NOAEC):	0.041 mg/L

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the hazardous waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. See container labeling for complete disposal instructions.

## 14. TRANSPORT INFORMATION

**UN Number:** UN3082

**Proper Shipping Name:** Environmentally hazardous substance, liquid, N.O.S. (contains Glufosinate)

**Transport Hazard Class:** 9

**Packing Group:** III

**Hazard Zone:** A

**Marine Pollutant:** Yes<sup>1</sup>

**Hazardous Substance RQ:** None

**Labels / Placards:** US-DOT: Class 9 Environmentally Hazardous Substance<sup>2</sup>  
Class 9 Environmentally Hazardous Substance<sup>3</sup>

**Emergency Guide:** 171 (NAERG – North American Emergency Response Guide)

<sup>1</sup>**Marine Pollutant Note:** Ground-only shipments are excluded from Marine Pollutant labeling requirements as per 49CFR§172.101 Appendix B(4). For any shipments involving all or part of the transport by vessel, the shipment must be classified as a Marine Pollutant unless a limited quantity exemption applies (see note 3 below).

<sup>2</sup>**US-DOT Note:** Not regulated for “ground only” shipments.

<sup>3</sup>**IMDG / IATA Note:** Not regulated when shipped in single or inner packaging ≤ 1.3 gal. (5 L) in strong outer packaging.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 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 absorbed through skin. Avoid contact with skin, eyes, or clothing.

See inside label booklet for additional precautionary statements.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to vascular plants.

### PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent.

Hazardous chemical reaction may occur.

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 listed requirements under EPA/TSCA.

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

Not listed

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

Immediate (acute), Delayed (chronic)

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

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

### 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.



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## 16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS 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.

To the extent consistent with applicable law, neither Tigris, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF TI-GRIS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, IN-JURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF TIGRIS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

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