



SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2803	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	DEAD ZONE	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Non-Selective Glyphosate Weed Killer	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Eye Irritation - Category 2B	SIGNAL WORD: WARNING	SYMBOL:	NOT A CONTROLLED  PRODUCT UNDER GHS
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HAZARD STATEMENT (S):

Keep out of reach of children.
Read label and SDS before use.
Causes eye irritation.

PRECAUTIONARY STATEMENT:

Prevention:

Wash hands thoroughly after handling.
Wear eye protection.

Response:

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 attention.

HAZARDS NOT OTHERWISE SPECIFIED:

Not applicable.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Glyphosate	38641-94-0	>=17 <= 19

4. First Aid Measures

EMERGENCY OVERVIEW

WARNING: May be harmful if swallowed. Eye irritant.

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 attention.

SKIN: Wash with plenty of soap and water.

INHALATION:

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

INGESTION:

May be harmful if swallowed. Seek medical attention immediately.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use water spray, fog, or foam.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Containers may build pressure and rupture.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Carbon Dioxide, Carbon Monoxide.

SPECIFIC FIREFIGHTING METHODS:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Put on appropriate personal protective equipment (see Section 8).

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

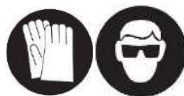
Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources. Disperse vapors with water spray. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

7. Handling and Storage

Do not use or store near heat, sparks or open flame. Store in a cool, dry place. Do not get in eyes, on skin or on clothing. Keep out of reach of children.

8. Exposure Controls / Personal Protection

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Wear safety glasses or goggles.

SKIN PROTECTION: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene).

RESPIRATORY PROTECTION: When respiratory protection is required use an organic vapor cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements must be followed.

ENGINEERING CONTROLS:

Good general ventilation required.

9. Physical & Chemical Properties

APPEARANCE	Light amber liquid.	AUTO IGNITION TEMP	Not available.
BOILING POINT	Not available.	COLOR	Purple.
DECOMPOSITION TEMPERATURE	Not available.	EVAPORATION RATE	Not available.
EXPLOSIVE LIMIT RANGES	Not available.	EXPLOSIVE PROPERTIES	Not available.
FLASH POINT	None.	MELTING/FREEZING POINT	Not available.
ODOR	Odorless.	ODOR THRESHOLD	Not available.
VOC CONTENT (Wt %):	0	OXIDIZING PROPERTIES	Not available.
PARTITION COEFF	Not available.	PHYSICAL STATE	Liquid.
RELATIVE DENSITY	1.07	SOLUBILITY (WATER)	Complete.
VAPOR DENSITY	Not available.	VAPOR PRESSURE	Not available.
VISCOSITY	Not available.	pH	5-7

10. Stability & Reactivity Information

REACTIVITY:

Reacts with steel (except stainless steel) to produce flammable hydrogen gas.

CHEMICAL STABILITY:

Stable under normal conditions.

INCOMPATIBLE MATERIALS:

Acids, bases and strong oxidizers.

CONDITIONS TO AVOID:

High temperatures.

DECOMPOSITION PRODUCTS:

CO, CO₂, nitrogen, phosphorous.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

Skin and eye contact.

ACUTE/POTENTIAL HEALTH EFFECTS:

EYES: May cause serious eye irritation. Symptoms include stinging, tearing and redness.

SKIN: May cause skin irritation.

INHALATION: High vapor concentrations may be irritating to respiratory tract.

INGESTION: May cause headache, dizziness, incoordination, nausea, vomiting, diarrhea and general weakness.

CHRONIC/LONG TERM EFFECTS:

Repeated overexposure to glyphosate may decrease body weight gains and effects to liver.

TARGET ORGAN EFFECTS:

Liver.

REPRODUCTIVE/DEVELOPMENTAL INFORMATION:

In laboratory animal studies with glyphosate, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

DEVELOPMENTAL TOXICITY:

In animal studies, glyphosate did not cause birth defects in animals; other effects were seen in the fetus only at doses which caused toxic effects to the mother.

CARCINOGENIC INFORMATION:

This material is not listed as a carcinogen by NTP or OSHA. Prolonged overexposure to glyphosate may cause effects to the liver. EPA has given glyphosate a Group E classification (evidence of non-carcinogenicity in humans). Canada PMRA has classified glyphosate as non-carcinogenic. In 2015, IARC classified glyphosate as a probable human carcinogen Group 2A based on limited human evidence and some evidence in animals.

ACUTE TOXICITY VALUES:

Data from laboratory studies on a substantially similar but not identical product:

Oral: Rat LD50: >5,000 mg/kg

Dermal: Rat LD50: >5,000 mg/kg

Inhalation: Rat 4-hr LC50: >2.05mg/l (no mortality at highest dose tested).

12. Ecological Information

Data on Glyphosate IPA

96-hour LC50 Rainbow Trout: >1000 mg/l

48-hour EC50 Daphnia: 930 mg/l

72-hour ErC50 Algae: 166 mg/l

Data on Glyphosate Acid:

96-hour LC50 Bluegill: 120 mg/l Bobwhite Quail Acute Oral LD50: >3,851 mg/kg

96-hour LC50 Rainbow Trout: 786 mg/l Bobwhite Quail 5-day Dietary LC50: >4,640 ppm

48-hour EC50 Daphnia: 780 mg/l Mallard Duck 5-day Dietary LC50: >4,640 ppm
96-hour EC50 Diatoms: 1.3 mg/l
14-day EC50 Duckweed: 25.5 mg/l
72-hour EC50 Algae: 450 mg/l

13. Disposal Consideration

Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

14. Transportation Information

Not regulated.

15. Regulatory Information

If identified components of this product are **CERCLA** hazardous substances and/or listed under **Sections 302, 304, or 313 of Title III** of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (also known as EPCRA, the Emergency Planning and Community Right-To-Know Act), or under **California Proposition 65** (Safe Drinking Water and Toxic Enforcement Act), they are listed above in Section 15 of this SDS. If identified components of this product are listed under Section 313, this product contains toxic chemicals subject to the reporting requirements of Section 313. This information must be included in all SDS's that are copied and distributed for this material.

Title III Section 311/312:

Hazardous Categories - 40 CFR 370.2:

ACUTE (X) Chronic () Fire () Pressure () Reactive () Not Applicable ()

T.S.C.A. Status:

All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

RCRA Status:

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. If this product becomes hazardous waste it would be assigned RCRA Code(s):

None

EPA FIFRA INFORMATION:

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use. **CAUTION.** Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

16. Other Information

N/A = Not Applicable; N/D = Not Determined

HMIS	Health Hazards: 1	Flammability: 0	Physical hazards: 0	Personal protection: B
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DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.