



SAFETY DATA SHEET

1. Product Identification:

Product Name: TOP DOG® GLYCEL ULTRA MAX

Manufacturer: Repar Corporation
Telephone: 202-223-1424
Address: P.O. Box 4321
City, State, Zip: Silver Spring, MD 20914
Emergency Phone: 202-223-1424 (Monday-Friday, 10:00 a.m. – 6:00 p.m.)
24 Hour Emergency Phone (CHEMTREC): 1-800-424-9300
U.S. EPA Registration No.: 86004-6-69361
Product Use: Herbicide

2. Health Hazard(s) Identification:

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Amber, clear liquid with characteristic odor

HEALTH HAZARDS: CAUTION! Moderately irritating to eyes.

PHYSICAL HAZARDS: May react with metals such as galvanized or mild steel to produce hydrogen gas which could form a highly combustible gas mixture.

ENVIRONMENTAL HAZARDS: Moderately toxic to fish. May be toxic to non-target plants.



3. Composition/Ingredient Information:

Chemical Names:

Active Ingredient:	CAS Number	Percentage by Weight
N-(phosphonomethyl)glycine isopropylamine salt	38641-94-0	50.2%

Common Name of Active Ingredient:

Glyphosate, isopropylamine salt	38641-94-0	50.2%
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Other Ingredients:

Inert Ingredients	N/A	49.8%
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*Inert ingredient identity is confidential business information

4. 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Medical Emergency Assistance, call the National Pesticide Information Center 1-800-858-7378.

NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically. The compound does not cause any definite symptoms that would be diagnostic.

For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

5. Fire Fighting Measures:

EXTINGUISHING MEDIA: Water, foam, dry chemical, carbon dioxide (CO₂)

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Carbon monoxide (CO), nitrogen oxides (NO_x), phosphorus oxides (P_xO_y) are all products of combustion.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS: Firefighters should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use. Minimize use of water to prevent environmental contamination.

6. Accidental Release Measures:

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

PERSONAL PRECAUTIONS: Follow protective measures indicated in Section 8: Exposure Control/Personal Protection for both emergency and non emergency personnel.

ENVIRONMENTAL PRECAUTIONS: For large quantities minimize spread and contain spillage with sand bags or other means. Keep out of drains, sewers, ditches and water ways. Notify authorities.

METHODS FOR CLEANING UP: Absorb in earth, sand or absorbent material. Dig up heavily contaminated soil. Collect in containers for disposal. Refer to Section 7 for types of containers. Flush residues with small quantities of water. Minimize use of water to prevent environmental contaminations. Refer to Section 13 for disposal of spilled material.

7. Handling and Storage:

HANDLING AND STORAGE PRECAUTIONS:

HANDLING: Handle with care to avoid accidental environmental release. Avoid contact with galvanized or unlined steel through handling. Wash hands before eating, drinking, chewing gum, using tobacco, or using toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

STORAGE: Keep container closed to prevent spills and contamination. Store above 28°F or agitate before use. Do not contaminate water, foodstuffs, feed or seed by storage. Prevent contact with galvanized or unlined steel through storage.

8. Exposure Control/Personal Protection:

EXPOSURE GUIDELINES: Occupational exposure limit (OEL) and biological limit values (BLV) for Glyphosate – CAS No.: 38641-94-0 not established, control banding approach not available.

APPROPRIATE ENGINEERING CONTROLS: Use sufficient ventilation to avoid the buildup of vapors.

WORK/HYGIENE PRACTICES: Emergency shower and eyewash facilities should be in close proximity (ANSI Z358.1). Launder contaminated clothing and wash hands and face after use. Discard clothing or 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, use detergent and hot water. Keep and wash PPE separately from other laundry.

The following personal protective equipment should be used in conjunction with exposure control measures.

EYE/FACE PROTECTION: If there is a significant potential for contact: Wear chemical goggles.

SKIN PROTECTION: Coveralls and shoes plus socks

RESPIRATORY PROTECTION: No special requirement when used as recommended.

HAND PROTECTION: Waterproof gloves

9. Physical & Chemical Properties:

APPEARANCE:	Amber, clear liquid
ODOR:	characteristic odor
ODOR THRESHOLD:	ND
pH:	6.85 (5% in distilled water)
MELTING POINT:	NA
BOILING POINT:	NA
FLASH POINT:	NA
EVAPORATION RATE:	ND
FLAMMABILITY (solid, gas):	not flammable
LOWER FLAMMABILITY LIMIT:	ND
UPPER FLAMMABILITY LIMIT:	ND
VAPOR PRESSURE:	NA
VAPOR DENSITY:	ND
RELATIVE DENSITY (H₂O = 1):	1.05 g/mL @ 68°F (20°C)
SOLUBILITY:	readily soluble in water
PARTITION COEFFICIENT (n-octanol/water):	NA
AUTO-IGNITION TEMPERATURE:	ND
DECOMPOSITION TEMPERATURE:	ND
VISCOSITY:	528 cps @ 77°F (25°C)

10. Stability & Reactivity:

REACTIVITY: Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

STABILITY: Stable under normal conditions of handling and storage.

HAZARDOUS REACTIONS: Thermal decomposition: Hazardous products of combustion.

CONDITIONS TO AVOID: Excess heat/fire.

INCOMPATIBLE MATERIALS: Galvanized or unlined steel.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide (CO), nitrogen oxides (NO_x), phosphorus oxides (P_xO_y) are all products of combustion.

11. Toxicological Information:

Toxicological Data for Top Dog® Glycel Ultra Max:

Oral LD ₅₀ (rat):	>5,000 mg/kg bw
Dermal LD ₅₀ (rat):	>5,000 mg/kg bw
Inhalation LC ₅₀ (rat):	>2.01 mg/L
Skin irritation (rabbit):	Slight Irritation (10 days to heal)
Skin sensitization (guinea pig):	Non-sensitizing
Eye irritation (rabbit):	Moderate Irritation (7 days to heal)
Specific target organ toxicity (STOT):	
STOT-single exposure:	ND
STOT-repeated exposure:	ND
Aspiration hazard:	ND

ROUTES OF EXPOSURE:

EYE CONTACT: Irritating to eyes

ADVERSE EFFECTS AND SYMPTOMS: ND

DELAYED OR IMMEDIATE EFFECTS FROM SHORT OR LONG TERM EXPOSURE: ND

NUMERICAL MEASURES OF TOXICITY: ND

INTERACTIVE EFFECTS: ND

Toxicological Data for Glyphosate Technical:

Mutagenicity:	Not mutagenic
Carcinogenicity:	Non carcinogenic
Reproductive Toxicity:	Not primary reproductive toxicant
Developmental Toxicity:	Not a primary developmental toxicant

12. Ecological Information:

Ecological Data for Top Dog® Glycel Ultra Max:

96 hr LC ₅₀	Rainbow trout	5.4 ppm
96 hr LC ₅₀	Bluegill sunfish	7.3 ppm
48 hr EC ₅₀	Daphnia	11 ppm
5 day LC ₅₀	Mallard duck	>5,620 mg/kg diet
5 day LC ₅₀	Bobwhite quail	>5,620 mg/kg diet
48 hr LD ₅₀	Honey bee	>100 µg/bee

Ecological Data for Glyphosate Technical:

PERSISTENCE AND DEGRADABILITY: Soil half-life 2 – 174 days, Water (aerobic) half-life <7 days. Koc: 884 – 60,000 L/kg

BIOACCUMULATIVE POTENTIAL: No significant bioaccumulation is expected.

Whole fish: BCF: < 1

MOBILITY IN SOIL: Absorbs strongly to soil.

13. Disposal Considerations:

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by disposal. Do not allow pesticide to enter sewers or waterways through disposal. Pesticide spray mixture or rinsate water that cannot be used according to label instructions must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: See individual container label for disposal information. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Store for collection by approved waste disposal service. Recycle if appropriate facilities/equipment available. Emptied containers retain vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Follow all local, regional, national and international regulations.

14. Transport Information:

SHIPPING DESCRIPTION: Not regulated by USDOT
(Ground transport)

DOT HAZARD CLASS: N/A

IDENTIFICATION NUMBER: N/A

DOT PACKING GROUP: N/A

15. Regulatory Information:

This chemical is a pesticide product registered with the U.S. 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.

Following is the hazard information as required on the pesticide label:

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing

16. Other Information:

HMIS HAZARD RATING	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	1
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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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. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, 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 EPA-approved label.

REVISED DATE: April, 2017

REFERENCE: Revised for GHS compliance