



# SAFETY DATA SHEET

## 1. Product Identification:

**Product Name: TOP DOG® GLYCEL SUPER MAX  
HERBICIDE**

**Manufacturer:** Repar Corporation  
**Telephone:** 301-562-7330  
**Address:** P.O. Box 4321  
**City, State, Zip:** Silver Spring, MD 20914  
**Emergency Phone:** 301-562-7330 (Monday-Friday,  
8:00 a.m. – 4:00 p.m.)  
**24 Hour Emergency Phone (CHEMTREC):** 1-800-424-9300  
**U.S. EPA Registration No.:** 86004-7-69361  
**Product Use:** Herbicide

## 2. Health Hazard(s) Identification:

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

Clear amber liquid with characteristic odor.

**HEALTH HAZARDS:** Caution! May be harmful if inhaled.  
**PHYSICAL HAZARDS:** May release toxic fumes if burned.  
**ENVIRONMENTAL HAZARDS:** Moderately toxic to fish and aquatic plants. May be toxic to non-target plants.



## 3. Composition/Ingredient Information:

**Chemical Names:**

Active Ingredient:	CAS Number	Percentage by Weight
N-(phosphonomethyl) glycine, in the form of its isopropylamine salt	38641-94-0	53.8

**Common Name of Active Ingredient:**  
Glyphosate, Isopropylamine salt 38641-94-0 53.8

**Other Ingredients:**  
Inert Ingredients 46.2%

\*Inert ingredient identity is confidential business information

## 4. First Aid Measures:

If in The 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 a 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.**

**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 (CO<sub>2</sub>)

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** No Unusual Fire and Explosion Hazards. Minimize use of water to prevent environmental contamination. Hazardous products combustion are: Carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), phosphorus oxides (P<sub>2</sub>O<sub>5</sub>).

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS:** Wear self-contained breathing apparatus if necessary. Equipment should be thoroughly decontaminated after use.

**FLASH POINT:** Does not flash

## 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:** Minimize spread. Keep out of drains, sewers ditches and water ways.

**METHODS FOR CLEANING UP:**

**SMALL QUANTITIES:** Absorb only in non-combustible material. Sweep, scoop or vacuum to remove.

**LARGE QUANTITIES:** Absorb in earth, sand or absorbent material. Dig up heavily contaminated soil. Collect in appropriate containers for disposal. Flush residues with small quantities of water. Minimize use of water to prevent environmental contamination.

## 7. Handling and Storage:

**HANDLING AND STORAGE PRECAUTIONS:**

**HANDLING:** Avoid unintentional release, contact with skin, eyes, or clothing through handling. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Keep away from sewers, drains and water ways when disposing.

**STORAGE:** Store in a cool, dry place. Keep container closed to prevent contamination. Keep product away from food, drink, and animal feed.

## 8. Exposure Control/Personal Protection:

**EXPOSURE GUIDELINES:** Occupational exposure limit (OEL) and biological limit values (BLV) for Glyphosate – CAS No.: 3641-94-0 not established, control banding approach not available.

**APPROPRIATE ENGINEERING CONTROLS:** No special requirement when used as recommended.

**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:** No special requirement when used as recommended.

**SKIN PROTECTION:** No special requirement when used as recommended.

**HAND PROTECTION:** No special requirement when used as recommended.

**RESPIRATORY:** No special requirement when used as recommended.

## 9. Physical & Chemical Properties:

<b>APPEARANCE:</b>	Clear-amber liquid
<b>ODOR:</b>	characteristic odor
<b>ODOR THRESHOLD:</b>	NA
<b>pH:</b>	6.85
<b>MELTING POINT:</b>	NA
<b>BOILING POINT:</b>	NA
<b>FLASH POINT:</b>	NA
<b>EVAPORATION RATE:</b>	ND
<b>FLAMMABILITY (solid, gas):</b>	Not flammable
<b>LOWER FLAMMABILITY LIMIT:</b>	NA
<b>UPPER FLAMMABILITY LIMIT:</b>	NA
<b>VAPOR PRESSURE:</b>	NA
<b>VAPOR DENSITY:</b>	ND
<b>RELATIVE DENSITY (H<sub>2</sub>O = 1):</b>	1.0523 @ 20°C (68°F) or 8.76 lb/gal.
<b>SOLUBILITY WATER:</b>	Readily soluble in water
<b>PARTITION COEFFICIENT (n-octanol/water):</b>	NA
<b>AUTO-IGNITION TEMPERATURE:</b>	ND
<b>DECOMPOSITION TEMPERATURE:</b>	ND
<b>VISCOSITY:</b>	528 cps @ 25oC.

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## 10. Stability & Reactivity:

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**REACTIVITY:** Reacts with galvanized steel to form flammable hydrogen gas, and bases liberating heat.

**STABILITY:** Stable under recommended handling and storage conditions.

**HAZARDOUS REACTIONS:** Reacts with galvanized steel to form flammable hydrogen gas, and bases liberating heat.

**CONDITIONS TO AVOID:** ND

**INCOMPATIBLE MATERIALS:** Galvanized steel and bases

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition. Decomposition products of Carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), phosphorus oxides (P<sub>x</sub>O<sub>y</sub>) may be formed

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## 11. Toxicological Information:

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### Toxicological Data for TOP DOG® GLYCEL SUPER MAX HERBICIDE

Oral LD <sub>50</sub> (rat):	> 5000 mg/kg b.w.:
Dermal LD <sub>50</sub> (rabbit):	> 5000 mg/kg b.w.
Inhalation LC <sub>50</sub> (rat):	> 4.24 mg/L
Skin irritation (rabbit):	Non-irritating
Skin sensitization (guinea pigs):	Non-sensitizer
Eye irritation (rabbit):	Non-irritating

### Toxicological Data for Glyphosate Technical:

Mutagenicity :	Not mutagenic
Carcinogenicity:	Not carcinogenic
Reproductive Toxicity:	Not reproductive toxicant
Specific target organ toxicity (STOT):	
STOT-single exposure:	ND
STOT-repeated exposure:	ND
Aspiration hazard:	ND

### ROUTES OF EXPOSURE:

**SKIN:** Not expected to produce significant adverse effects.

**INGESTION:** Not expected to produce significant adverse effects

**EYE CONTACT:** Not expected to produce significant adverse effects.

**ADVERSE EFFECTS AND SYMPTOMS:** ND

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

**NUMERICAL MEASURES OF TOXICITY:** ND

**INTERACTIVE EFFECTS:** ND

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## 12. Ecological Information:

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### Ecological Data for TOP DOG® GLYCEL SUPER MAX HERBICIDE:

96 hours LC <sub>50</sub>	Bluegill Sunfish	> 1,000 mg/L
96 hours LC <sub>50</sub>	Rainbow trout	> 1,000 mg/L
48 hours EC <sub>50</sub>	Water flea	930 mg/L
72 hours EC <sub>50</sub>	Green algae	26.4 mg/L
5 days LD <sub>50</sub>	Bobwhite quail	>4,640 mg/kg diet
5 days LD <sub>50</sub>	Mallard Duck	>4,640 mg/kg diet
48 hours oral LD <sub>50</sub>	Honey bee	100 µg/bee
48 hours contact LD <sub>50</sub>	Honey bee	>100 µg/bee
14 days acute toxicity	Earthworm	>5,000 mg/kg dry soil

### 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:** <1

**MOBILITY IN SOIL:** Absorbs strongly to soil.

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## 13. Disposal Considerations:

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**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

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## 14. Transport Information:

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**SHIPPING DESCRIPTION:** Not regulated by USDOT (Ground transport)

**DOT HAZARD CLASS:** N/A

**IDENTIFICATION NUMBER:** N/A

**DOT PACKING GROUP:** N/A

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## 15. Regulatory Information:

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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:

### SIGNAL WORD: CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet..

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## 16. Other Information:

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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:** March 10, 2020

**REFERENCE:** Revised for GHS compliance

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