

# Material Safety Data Sheet

## GlySupreme Aquatic Herbicide

Manufactured for MEY Corporation  
121 S. Estes Drive, Suite 101 Chapel Hill, NC 27514 U.S.A.

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name**

GlySupreme Aquatic Herbicide

**EPA Reg. No.**

80967-5

**Chemical name**

Not applicable

**Synonyms**

None

**Company**

MEY Corporation, 121 S. Estes Drive, Suite 101, Chapel Hill, NC 27514

**Telephone:** (919) 932-5800 **Fax:** (919) 932-5820

**Emergency numbers**

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC – Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls originating elsewhere: 1-703-527-3887 (collect calls accepted).

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Active ingredient**

Isopropylamine salt of N-(phosphonomethyl)glycine; {Isopropylamine salt of glyphosate}

**Composition**

COMPONENT	CAS No.	% by weight (approximate)
Isopropylamine salt of glyphosate	38641-94-0	53.8
Other ingredients		46.2

### 3. HAZARDS IDENTIFICATION

#### **Emergency overview**

**Appearance and odor (color/form/odor):** Amber – Clear, pal yellow liquid

CAUTION  
CAUSES MODERATE EYE IRRITATION

#### **Potential health effects**

##### **Likely routes of exposure**

Skin contact, eye contact, and inhalation.

##### **Eye contact, short term**

Not expected to produce significant adverse effects when recommended use instructions are followed.

##### **Skin contact, short term**

Not expected to produce significant adverse effects when recommended use instructions are followed.

##### **Inhalation, short term**

Not expected to produce significant adverse effects when recommended use instructions are followed.

#### **OSHA Status**

This product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Refer to Section 11 for toxicological and Section 12 for environmental information.**

### 4. FIRST AID MEASURES

#### **Eye Contact**

Immediately flush with plenty of water. Continue for at least 15 minutes. If easy to do, remove contact lenses. If there are persistent symptoms, obtain medical advice.

#### **Skin contact**

Immediately wash affected skin with plenty of water. Take off contaminated clothing, wristwatch, and jewelry. Wash clothes before re-use.

#### **Inhalation**

Remove to fresh air.

#### **Ingestion**

Immediately offer water to drink. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed by medical personnel. If symptoms occur, get medical attention.

#### **Advice to doctors**

This product is not an inhibitor of cholinesterase.

#### **Antidote**

Treatment with atropine and oximes is not indicated.

## 5. FIRE FIGHTING MEASURES

### Flash point

None

### Extinguishing media

Recommended: Water, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).

### Unusual fire and explosion hazards

Minimize use of water to prevent environmental contamination.

### Environmental precautions

See Section 6.

### Hazardous products of combustion

Carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), phosphorus oxides (P<sub>x</sub>O<sub>y</sub>).

### Fire-fighting equipment

Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protection recommended in Section 8.

### Environmental precautions

SMALL QUANTITIES: Low environmental hazard.

LARGE QUANTITIES: Minimize spread. 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 contamination. Refer to Section 13 for disposal of spilled material.

## 7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

### Handling

Avoid contact with eyes. When using do not eat drink or smoke. Wash hands thoroughly after handling or contact. Thoroughly clean equipment after use. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Emptied packages retain product residue. FOLLOW LABELLED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

### Storage

Compatible materials for storage: stainless steel, aluminum, fiberglass, plastic. Incompatible materials for storage: unlined mild steel, galvanized steel, see Section 10. Keep out of reach of children. Keep away from food, drink and animal feed. Keep only in the original container. Shelf life currently under test. Recommended maximum shelf life is 2 years. Follow all local/regional/national regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Airborne exposure limits

Components	Exposure Guidelines
Isopropylamine salt of glyphosate	No specific occupational exposure limit has been established.
Other ingredients	No specific occupational exposure limit has been established.

### Engineering controls

No special requirement when used as recommended.

### Eye protection

If there is significant potential for contact: Wear chemical goggles. Applicators and other handlers must wear eye protection.

### Skin protection

If repeated or prolonged contact: Wear chemical resistant gloves.

### Respiratory protection

No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Color/color range:	Amber - Brown
Form:	Liquid (viscous)
Odor:	None
Flash point:	None
Specific gravity:	1.21 @ gm/L 20 C
pH:	4.8 – 6.0
Viscosity:	43 mPa @ 20 C

## 10. STABILITY AND REACTIVITY

### Stability

Stable under normal conditions of handling and storage.

### Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see Section 5.

### Materials to avoid/Reactivity

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

## 11. TOXICOLOGICAL INFORMATION

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

### Acute oral toxicity

Rat, LD50: > 5,000 mg/kg body weight. Practically non-toxic. FIFRA category IV.

### Acute dermal toxicity

Rat, LD50: > 5,000 mg/kg body weight. Practically non-toxic. FIFRA category IV.

### Skin irritation

Rabbit, 6 animals, OECD 404 test: Days to heal: 10. Primary Irritation Index (PII): 1.7/8.0. Slight irritation. FIFRA category IV.

### Eye irritation

Rabbit, 6 animals, OECD 405 test: Days to heal: 7. Moderate irritation. FIFRA category III.

### Acute inhalation toxicity

Rat, LC50, 4 hours, aerosol: > 2.01 mg/L. Practically non-toxic. FIFRA category IV.

### Skin sensitization

Guinea pig, Buehler test: Positive incidence: 0 %. Negative. No skin sensitization

### *N*-(phosphonomethyl)glycine: (glyphosate)

#### Mutagenicity

In vitro and in vivo mutagenicity test(s): Not mutagenic.

#### Repeated dose toxicity:

Rabbit, dermal, 21 days: NOAEL toxicity: > 5,000 mg/kg body weight/day. Target organs/systems: none. Other effects: none.

Rat, oral, 3 months: NOAEL toxicity: > 20,000 mg/kg diet. Target organs/systems: none. Other effects: none.

#### Carcinogenicity

Mouse, oral, 24 months: NOEL tumor: > 30,000 mg/kg diet. NOAEL toxicity: ~ 5,000 mg/kg diet. Tumors: none. Target organs/systems: liver. Other effects: decrease of body weight gain, and histopathologic effects.

Rat, oral, 24 months: NOEL tumor: > 20,000 mg/kg diet NOAEL toxicity: ~ 8,000 mg/kg diet. Tumors: none. Target organs/systems: eye. Other effects: decrease of body weight gain, and histopathologic effects.

#### Toxicity to reproduction/fertility

Rat, oral, 3 generations: NOAEL toxicity: > 30 mg/kg body weight. NOAEL reproduction: > 30 mg/kg body weight. Target organs/systems in parents: none. Other effects in parents: none. Target organs/systems in pups: none. Other effects in pups: none.

#### 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.

## 12. ECOLOGICAL INFORMATION

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

### Similar formulation

#### Aquatic toxicity. fish

**Rainbow trout (*Oncorhynchus mykiss*):** Acute toxicity, 96 hours. Static, LC50: 5.4 mg/L. Moderately toxic.

**Bluegill sunfish (*Lepomis macrochirus*):** Acute toxicity, 96 hours. Static, LC50: 7.3 mg/L. Moderately toxic.

#### Aquatic toxicity. invertebrates

**Water flea (*Daphnia magna*):** Acute toxicity, 48 hours. Static, EC50: 11 mg/L. Slightly toxic.

#### Avian toxicity

**Mallard duck (*Anas platyrhynchos*):** Dietary toxicity, 5 days. LC50: > 5,620 mg/kg diet. Practically non-toxic.

**Bobwhite quail (*Colinus virginianus*):** Dietary toxicity, 5 days. LC50: > 5,620 mg/kg diet. Practically non-toxic.

#### Arthropod toxicity

**Honey bee (*Apis mellifera*):** Oral/contact, 48 hours. LD50: > 100 µg/bee. Practically non-toxic.

#### Soil organism toxicity. invertebrates

**Earthworm (*Eisenia foetida*):** Acute toxicity, 14 days. LC50: > 1,250 mg/kg soil. Practically non-toxic.

### Isopropylamine salt of glyphosate (62%)

#### Aquatic toxicity. algae/aquatic plants

**Green algae (*Scenedesmus subspicatus*):** Acute toxicity, 72 hours. Static, EbC50 (biomass): 72.9 mg/L. Slightly toxic.

### N-(phosphonomethyl)glycine: (glyphosate)

#### Bioaccumulation

**Bluegill sunfish (*Lepomis macrochirus*):** Whole fish: BCF: No significant bioaccumulation is expected.

#### Dissipation

**Soil, field:** Half life: 2 - 174 days. Koc: 884 - 60,000 L/kg. Adsorbs strongly to soil.

**Water, aerobic:** Half life: < 7 days.

### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Recycle if appropriate facilities/equipment available. Burn in special, controlled high temperature incinerator. Keep out of drains, sewers, ditches and water ways. Follow all local/regional/national/international regulations.

#### **Container**

See the individual container label for disposal information. Triple 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/international regulations.

### 14. TRANSPORT INFORMATION

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

Not hazardous under the applicable DOT, ICAO/IATA, IMO, TDG and Mexican regulations.

### 15. REGULATORY INFORMATION

#### **TSCA Inventory**

All components are on the US EPA's TSCA Inventory.

#### **OSHA Hazardous Components**

Surfactant(s)

#### **SARA Title III Rules**

Section 311/312 Hazard Categories: Immediate.

Section 302 Extremely Hazardous Substances: Not applicable.

Section 313 Toxic Chemical(s): Not applicable.

#### **CERCLA Reportable quantity**

Not applicable.

### 16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data. Follow all local/regional/national regulations. Please consult supplier if further information is needed.

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