



Safety Data Sheet

GlySupreme 75-WDG Glyphosate Herbicide

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

GlySupreme 75-WDG Glyphosate Herbicide

EPA Reg. No.

80967-13

Product Use

Herbicide

Chemical name

Not applicable

Synonyms

None

Company

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

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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. HAZARDS IDENTIFICATION

Emergency overview

Appearance and odor (color/form/odor): Tan – White / Granules / Odorless - mild amine

CAUTION

CAUSES MODERATE EYE IRRITATION

HARMFUL IF SWALLOWED

Potential health effects**Likely routes of exposure**

Skin contact, eye contact, and inhalation.

Eye contact, short term

Causes temporary eye irritation.

Skin contact, short term

May cause slight skin irritation. Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term

Dust may cause slight irritation of the nose and throat. Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion

Harmful if swallowed.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Active ingredient**

Ammonium salt of N-(phosphonomethyl)glycine: {Ammonium salt of glyphosate}

Composition

COMPONENT	CAS No.	% by weight (approximate)
Ammonium salt of glyphosate	114370-14-8	75.7
Surfactants/dispersing agents	Trade Secret	15.6
Ammonium sulfate	7783-20-2	8.7

4. FIRST AID MEASURES

Use personal protection recommended in Section 8.

Eye Contact

If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothes and clean shoes before reuse.

Inhalation

If inhaled, move person to fresh air. If person is not breathing, call the emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Ingestion

Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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**

Does not flash.

Extinguishing media

Recommended: Water, foam, dry chemical, carbon dioxide (CO₂).

Unusual fire and explosion hazards

None. Minimize use of water to prevent environmental contamination.

Environmental precautions

See Section 6.

Hazardous products of combustion

Carbon monoxide (CO), nitrogen oxides (NOx), phosphorus oxides (PxOy), and ammonia (NH3).

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. Avoid breathing dust. Keep upwind of spillage.

Environmental precautions

SMALL QUANTITIES: Low environmental hazard.

LARGE QUANTITIES: Minimize spread. Keep out of drains, sewers, ditches and water ways.

Methods for cleaning up

SMALL QUANTITIES: Sweep, scoop or vacuum and collect in containers for disposal.

LARGE QUANTITIES: Dig up heavily contaminated soil. Collect in containers for disposal. Refer to Section 7 for types of containers. Flush spill area with water. Minimize use of water to prevent environmental contamination.

Refer to Section 13 for disposal of spilled material. Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

7. HANDLING AND STORAGE

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

Handling

Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing dust. When using do not eat drink or smoke. Wash hands thoroughly after handling or contact. Wash contaminated clothing before reuse. Minimize dust generation and accumulation. Thoroughly clean equipment after use. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Refer to Section 13 for disposal of rinse water. Emptied packages retain vapor, product residue, and dust. FOLLOW LABELLED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

Storage

Maximum storage temperature 120° F (50° C). Compatible materials for storage are stainless steel, aluminum, fiberglass, and plastic. Incompatible materials for storage are galvanized steel and unlined mild steel, see Section 10. Keep out of reach of children. Keep away from food, drink and animal feed. Keep only in the original container. Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Keep container off wet floors. Minimum shelf life is 5 years. Follow all local, regional, national, and international regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits

Components	Exposure Guidelines
Ammonium salt of glyphosate	No specific occupational exposure limit has been established.
Surfactants and dispersing agents	No specific occupational exposure limit has been established.
Ammonium sulfate	No specific occupational exposure limit has been established.

Engineering controls

No special requirement when used as recommended.

Eye protection

No special requirement when used as recommended. If there is significant potential for eye contact wear suitable eye protection such as chemical safety goggles or a face shield.

Skin protection

No special requirement when used as recommended. If there is 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 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	Tan - white
Odor	Odorless - mild amine
Physical state	Solid, granules
Melting point	No data
Boiling point	Not applicable
Flash point	Does not flash
Explosive properties	Not explodable
Auto ignition temperature	Not flammable
Specific gravity	No data
Vapor pressure	No significant volatility
Vapor density	Not applicable
Evaporation rate	Not applicable
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Density	Pour density 0.564 g/mL; tap (bulk) density 0.611 g/mL
Solubility	Water: immiscible
pH	4.37 as a 1% solution @ 25°C
Partition coefficient	log Pow: < -3.2 @ 25°C (glyphosate)

10. STABILITY AND REACTIVITY**Stability**

Stable under normal conditions of handling and storage.

Oxidizing properties

Not an oxidizer or reducer.

Materials to avoid and reactivity

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

Hazardous decomposition

Thermal decomposition: Hazardous products of combustion are carbon monoxide (CO), nitrogen oxides (NO_x), phosphorus oxides (P_xO_y), and ammonia (NH₃). See Section 5.

Self-accelerating decomposition temperature (SADT)

No data.

11. TOXICOLOGICAL INFORMATION

Data obtained on similar products and on components are summarized below.

Ammonium salt of glyphosate (71.4%)

Acute oral toxicity

Rat, female, LD50: 3,794 mg/kg body weight. Slightly toxic. FIFRA category III.

Acute dermal toxicity

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

Acute inhalation toxicity

Rat, LC50 (limit test), 4 hours, aerosol: > 2.6 mg/L. Practically non-toxic. FIFRA category IV.

Skin irritation

Rabbit, 6 animals, OECD 404 test: Days to heal 7. Primary Irritation Index (PII) 1.6/8.0. Slight irritation. FIFRA category IV.

Eye irritation

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

Skin sensitization

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

N-(phosphonomethyl)glycine: {glyphosate}

Mutagenicity

Micronucleus test(s): Not mutagenic.

Ames test(s): Not mutagenic with and without metabolic activation.

Repeated dose toxicity:

Rabbit, dermal, 21 days: NOEL toxicity > 5,000 mg/kg body weight/day.

Rat, oral, 3 months: NOEL toxicity > 20,000 mg/kg diet.

Chronic effects/carcinogenicity

Mouse, oral, 24 months: NOEL toxicity ~ 5,000 mg/kg diet. NOEL tumor > 30,000 mg/kg diet.

Rat, oral, 24 months: NOEL toxicity ~ 8,000 mg/kg diet. NOEL tumor > 20,000 mg/kg diet.

Toxicity to reproduction/fertility

Rat, oral, 2 generations: NOEL toxicity 10,000 mg/kg diet. NOEL reproduction > 30,000 mg/kg diet.

Developmental toxicity/teratogenicity

Rat, oral, 6 - 19 days of gestation: NOEL toxicity 1,000 mg/kg body weight. NOEL development 1,000 mg/kg body weight.

Rabbit, oral, 6 - 27 days of gestation: NOEL toxicity 175 mg/kg body weight. NOEL development 175 mg/kg body weight.

12. ECOLOGICAL INFORMATION

Data obtained on similar products and on components are summarized below.

Ammonium salt of glyphosate (71.4%)

Aquatic toxicity, fish

Rainbow trout (*Oncorhynchus mykiss*): Acute toxicity, 96 hours, static, LC50 3 mg/L. Moderately toxic.

Aquatic toxicity, invertebrates

Water flea (*Daphnia magna*): Acute toxicity, 48 hours, static, EC50 29.1 mg/L. Slightly toxic.

Aquatic toxicity, algae/aquatic plants

Green algae (*Selenastrum capricornutum*): Acute toxicity, 72 hours, static, ErC50 (growth rate) 9.51 mg/L. Moderately toxic.

Arthropod toxicity

Honey bee (*Apis mellifera*): Oral, 48 hours, LD50 > 177 µg/bee. Practically non-toxic.

Honey bee (*Apis mellifera*): Contact, 48 hours, LD50 > 152 µg/bee.

Soil organism toxicity, invertebrates

Earthworm (*Eisenia foetida*): Acute toxicity, 14 days, LC50 > 10,000 mg/kg dry soil. Practically non-toxic.

Soil organism toxicity, microorganisms

Nitrogen and carbon transformation test: 33.3 kg/ha, 28 days. Less than 25% effect on nitrogen or carbon transformation processes in soil.

Avian toxicity

Bobwhite quail (*Colinus virginianus*): Acute oral toxicity, single dose LD50 1,651 mg/kg body weight. Slightly toxic.

N-(phosphonomethyl)glycine: {glyphosate}

Bioaccumulation

Bluegill sunfish (*Lepomis macrochirus*): Whole fish BCF < 1. 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

Not classified as hazardous waste by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Keep out of drains, sewers, ditches and water ways. Recycle if appropriate facilities and equipment are available. Burn in proper incinerator. Follow all local, regional, national, and international regulations.

Container

Dispose of as non-hazardous industrial waste. See the individual container label for disposal information. Emptied containers retain vapor, product residue and dust. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Empty packaging completely. Do NOT reuse containers. Store for collection by approved waste disposal service. Follow all local, regional, national, and international regulations.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

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.

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.

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

COMPONENT	CAS No.	CA	MA	MN	NJ	PA
Ammonium sulfate	7783-20-2	No	Yes	No	No	Yes

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data. Follow all local, regional, national, and international regulations. Please consult supplier if further information is needed. For more information refer to the product label. Please consult MEY Corporation if further information is needed.

	Health	Flammability	Instability	Additional Markings
NFPA	1	1	1	
0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard				

Commonly used abbreviations:

BCF	Bioconcentration Factor
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EbC50	50% reduction of biomass concentration
ErC50	50% reduction of growth rate
EC50	50% effect concentration
ED50	50% effect dose
EPA	Environmental Protection Agency
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
Koc	Soil adsorption coefficient
LC50	50% lethality concentration
LD50	50% lethality dose
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
MEL	Maximum Exposure limit
MTD	Maximum Tolerated Dose
NFPA	National Fire Protection Association
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organization for Economic Co-operation and Development
OSHA	Occupational Safety and Health Administration
Pow	Partition coefficient n-octanol/water
SARA	Superfund Amendment and Reauthorization Act
STEL	Short-Term Exposure Limit
TSCA	Toxic Substances Control Act

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. In the USA, 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.

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