



Product: COM-PLEET® 1.92% SYSTEMIC
GRASS & WEED KILLER RTU
EPA Reg. No.: 67760-47-869
Effective Date: 03/01/2004

MATERIAL SAFETY DATA SHEET
Emergency Phone 800/535-5053

Size	Product Number	UPC Code
24 oz.	10924	0 49424 10924 1
Quart	10932	0 49424 10932 6
Gallon	10901	0 49424 10901 2

Note: Be sure to compare the EPA registration number as given on the MSDS with the EPA registration number as given on the label as some products have had the active ingredients changed without a corresponding change in the UPC number or in the item description.

1. INGREDIENTS

N-(Phosphonomethyl)glycine, compd. with 2-propanamine (1:1)(CAS # 38641-94-0): 1.92%
Inert Ingredients: 98.08%

2. PHYSICAL DATA

PHYSICAL STATE: Clear solution
COLOR: Yellow
ODOR: Practically odorless
MELTING POINT: <0°C (32°F)
BOILING POINT: >100°C (212°F)
SPECIFIC GRAVITY: 1.01 g/ml at 20°C (68°F)
VAPOR PRESSURE: For the active ingredient glyphosate free acid: 1.75×10^{-7} mm Hg (1.31×10^{-5} Pa) at 25°C (77°F)
VISCOSITY: Approximately 1cP
SOLUBILITY IN WATER: The product is miscible in water (solubility active ingredient glyphosate free acid: 10.5 g/l at 20°C (68°F)).
pH: Approximately 5.0
FLASH POINT: >75°C (167°F)(Pensky-Martens closed tested)
AUTOIGNITION TEMPERATURE: Not available.
FLAMMABLE LIMITS: Not available.

3. HEALTH HAZARD DATA

EYE CONTACT: The product may cause minimal eye irritation.
SKIN CONTACT: The product is not expected to cause irritation to skin.
INGESTION: The product is slightly harmful if swallowed. No significant adverse health effects are expected to develop. Ingestion of large amounts may produce gastrointestinal discomfort with nausea, vomiting, and diarrhea.
INHALATION: The product is only very slightly harmful by inhalation.

4. EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Immediately flush with plenty of water while opening eyelids.
IF ON SKIN: Wash with water and soap.
IF SWALLOWED: Get medical attention if symptoms develop.
IF INHALED: Remove individual to fresh air.

5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA AND PROCEDURES: Dry chemical or carbon dioxide for small fires. Water spray or foam for large fires. This product does not represent a serious fire hazard. In the event of fire, attention should be focused on combustible materials in the surroundings.



Product: COM-PLEET® 1.92% SYSTEMIC
GRASS & WEED KILLER RTU
EPA Reg. No.: 67760-47-869
Effective Date: 03/01/2004

**HAZARDOUS DECOMPOSITION OR
BY-PRODUCTS IN A FIRE:**

The essential breakdown products are carbon monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides.

**UNUSUAL FIRE & EXPLOSION
HAZARD:**

-

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION:

Observe all protection and safety precautions when cleaning up spills, see Section 8.

STEPS TO BE TAKEN IN CASE OF SPILL

Small Liquid Spills:

Material on the floor or other impervious surfaces should be soaked up with towels or other absorbent material and can be discarded as non-hazardous waste. Clean spill area with soap and water and rinse thoroughly.

Large Liquid Spills:

Material on the floor or other impervious surfaces should be contained or diked and then absorbed with attapulgite, bentonite or other absorbent clays. Collect the contaminated absorbent, place in suitable containers and dispose of in accordance with the instructions under Disposal (see Section 12). Thoroughly scrub floor or other impervious surfaces with strong industrial detergent and rinse with water. Large spills that soak into the ground should be dug up, placed in suitable containers and disposed of in accordance with instructions provided under Disposal (see Section 12). Contact appropriate state agency when considering a land spreading disposal option.

7. HANDLING AND STORAGE

PRECAUTIONS IN HANDLING:

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

PRECAUTIONS IN STORING:

The product is stable under normal conditions of warehouse storage. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

The product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy vapor or mist, workers should use NIOSH/MSHA approved respiratory protection equipment. Respirators are not required for application of the product.

PROTECTIVE GLOVES:

Wear chemical resistant gloves.

EYE PROTECTION:

Wear goggles, face shield or safety glasses.

SKIN PROTECTION:

Wear long-sleeved shirt, long pants, and shoes plus socks.

WORK/HYGIENE PRACTICES:

Do not get in eyes. Avoid breathing spray mist. Remove heavily contaminated clothing and wash before reuse.

9. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:
HAZARDOUS DECOMPOSITION OR
BY PRODUCTS
MATERIALS TO AVOID:**

This product is stable at ambient temperatures.

None, however see Section 5.

Do not store or apply this product in galvanized or unlined steel containers or spray tanks. Stainless steel may be used. This product may react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture with air. This gas mixture could flash or explode, causing serious personal injury, if ignited



Product: COM-PLEET[®] 1.92% SYSTEMIC
GRASS & WEED KILLER RTU
EPA Reg. No.: 67760-47-869
Effective Date: 03/01/2004

HAZARDOUS POLYMERIZATION: by open flame, spark, welder's torch, lighted cigarette or other ignition source.
Does not occur. The product can react with caustic (alkaline) materials to liberate heat. This is not a polymerization but an acid-base neutralization reaction.

10. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

INGESTION:

LD50, rat, oral: > 5000 mg/kg*

SKIN:

LD50, rat, dermal: > 5000 mg/kg*

INHALATION:

LD50, rat: > 5.00 mg/L/4 h*

*Estimate based on measurements on a similar product.

EYE & SKIN IRRITATION:

Non-irritating to skin, practically non-irritating to eyes.

ALLERGIC SENSITATION:

Not a skin sensitizer.

CARCINOGENICITY:

EPA classification of glyphosate: category E (evidence of non-carcinogenicity to humans).

REPRODUCTIVE EFFECTS:

No reproductive effects are found in rats.

TERATOGENICITY:

No effects are found in rats and rabbits at maternal non-toxic doses (<1000 mg/kg/day).

MUTAGENICITY:

Glyphosate is non-mutagenic.

11. ECOLOGICAL INFORMATION

The active ingredient (glyphosate free acid) is rapidly deactivated by adsorption to clay particles. Glyphosate binds strongly to soil. It is not always readily degraded in waste water treatment plants, depending on circumstances like concentration.

The acute toxicity of the active ingredient glyphosate to wildlife is:

Fish:	96-hr LC50 rainbow trout	95-171 mg/l
Invertebrates:	48-hr EC50, daphnids	87 mg/l
Birds:	LD50, bobwhite quail	>2000 mg/kg
	LD50, mallard duck	>2000 mg/kg
Algae:	96-hr EC50, algae	118 mg/l

12. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Spill and waste disposal procedures in conformity with state and local regulations must be followed. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

Container Disposal:

Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.

13. TRANSPORTATION INFORMATION

UN Identification Number:

Not classified as hazardous material for transport.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate as of the effective date given above, Green Light makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Green Light's control. Therefore, users are responsible for determining whether under their own operating conditions the product is suitable for their particular use. Users assume all risks of use, handling, and disposal of the product. The publication or use of, or reliance upon, information contained herein does not relate to the use of this product in combination with any other material or in any other process.