

Material Safety Data Sheet

Effective Date: 13-DEC-2007
Product: HOSS ULTRA

I. IDENTIFICATION

Chemical Name: Glyphosate
Chemical Family: Non-selective Herbicide
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: Not applicable, formulated mixture.
EPA Number: 42750-61-5905

II. PHYSICAL DATA

Boiling Point: Not determined
Freezing Point: Not determined
Spec Gravity: 1.172 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: Soluble
Volatiles: Not determined
Evaporation: Not determined
Melting Point: Not applicable
Appearance: Clear, viscous green/yellow liquid.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt.	38641-94-0	41.00	N/E	Skin & eye irritant.
Inert ingredients, including VBS GMS.		59.00	N/E	Skin & eye irritant.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible
Autoignition Temp: Not determined
Flammable Limit: Not determined
Extinguishing Media: Use foam or water spray for large fires. For small fires, use dry chemical or carbon dioxide.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff.
Fire and Expl Hazard: This material reacts with galvanized steel or unlined, non-stainless steel to produce

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hydrogen gas which may then form a highly combustible gas mixture which may explode under fire conditions.

V. HEALTH HAZARD

Carcinogen Information: Not listed by IARC, NTP or OSHA.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Only slightly toxic by ingestion.
Skin Absorption: Slightly toxic by skin absorption.
Inhalation: Low inhalation toxicity.
Skin contact: Slightly irritating with skin contact.
Eye Contact: Slightly irritating with eye contact.
Chronic Effects: Prolonged overexposure to glyphosate may cause effects to the liver.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call a poison control center or doctor immediately for treatment advice. 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.
Skin: Remove contaminated clothing. Immediately rinse affected area with water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation: Move to fresh air. If irritation persists, seek medical attention.
Eyes: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing the eyes. Call a poison control center or doctor for treatment advice.
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

VI. REACTIVITY

Stability: Stable

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Conditions to Avoid: Avoid excessive heat. Do not store near heat or open flame.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Incompatible with strong oxidizing agents, bases and acids. May react with galvanized steel or unlined, non-stainless steel to produce hydrogen gas.
Hazardous Combustion: May produce gases such as oxides of carbon, nitrogen or phosphorous.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Do not allow spilled material to enter public sewer systems or any waterways. Dike spill using absorbents, soil, sand or clay. Collect and contain all contaminated absorbents, diking materials and soils for disposal.
Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None normally required.
Ventilation: Local exhaust should be sufficient.
Gloves: Chemical-resistant gloves.
Eyes: Chemical goggles or shielded safety glasses.
Other: Emergency shower, eyewash station, long-sleeved shirt, long pants, socks and shoes.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, ponds or storm drains with this material.
Other precaution: Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined containers.

