

Material Safety Data Sheet

Effective Date: 09-NOV-2006
Product: HM-2028

I. IDENTIFICATION

Chemical Name: Glyphosate Acid
Chemical Family: Non-selective Herbicides
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: Not applicable, formulated mixture.
EPA Number: 5905-560

II. PHYSICAL DATA

Boiling Point: Not determined
Freezing Point: <32 Degrees F.
Spec Gravity: 1.632 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: 100% Soluble
Volatiles: Not determined
Evaporation: Not determined
Melting Point: Not applicable
Appearance: Clear liquid with low odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Glyphosate Acid: N-(phosphonomethyl) glycine	1071-83-6	12.00	N/E	Severe eye & moderate skin irritant.
Phosphoric Acid	7664-38-2	83.00	1 mg/m3	Corrosive to eyes & skin.
Inert Ingredients		5.00	N/E	Non-hazardous

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Not flammable
Autoignition Temp: Not flammable
Flammable Limit: Not determined
Extinguishing Media: Water fog, alcohol foam, dry chemical and carbon dioxide extinguishing media. Use water fog to keep fire-exposed containers cool.
Special Fire Fight Proc: Wear positive pressure self-contained breathing apparatus and full protective clothing. Avoid getting water from fire fighting into domestic or irrigation water supplies.

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Fire and Expl Hazard: Toxic vapors may be formed under fire conditions.

V. HEALTH HAZARD

Carcinogen Information: Not currently listed.

ACUTE EFFECTS OF OVER EXPOSURE

- Swallowing: Ingestion of this mixture can produce burns on the mouth and lips, severe gastrointestinal irritation, nausea, bloody diarrhea, difficult swallowing, severe abdominal pains, thirst, acidemia, difficult breathing, convulsions, collapse, shock or death.
- Skin Absorption: Skin contact is the primary route of exposure. Material is corrosive to skin.
- Inhalation: Breathing of mist or vapor is possible. Breathing of this product may be harmful. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.
- Skin contact: May cause permanent skin burns upon contact. Symptoms include redness, burning, and swelling of skin with burns or other skin damage.
- Eye Contact: Can cause permanent eye injury. Symptoms include stinging, tearing, redness or swelling of eyes. Can injure the cornea and cause blindness.
- Chronic Effects: Remote risk of pulmonary edema from inhalation of vapors or mists containing phosphoric acid.
- Other Hazard: Mists or solutions containing phosphoric acid, such as this material, may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

- Swallowing: If the victim is conscious, give 2 glasses of water to drink immediately. Do NOT induce vomiting! Get medical attention immediately.
- Skin: Immediately flush affected areas with water for at least 15 minutes, while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and decontaminate or discard contaminated shoes.
- Inhalation: If symptoms develop, immediately remove victim

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to fresh air. Seek immediate medical attention.

Eyes: Immediately flush eyes with water for 15 minutes while holding eyelids open. If symptoms develop as a result of vapor exposure, remove to fresh air and then flush eyes with water for 15 minutes. Seek immediate medical attention.

Notes to Physician: Product contains phosphoric acid. 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
Conditions to Avoid: None currently known.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Strong caustics, sulfides and sulfites, strong bases. Severely corrosive to steel.
Hazardous Combustion: Toxic gases and vapors (such as phosphoric acid fume) may be released under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Dike all spills to prevent spreading. For small spills, cover spilled material with sodium bicarbonate or a 50-50 mixture of soda ash/flaked lime. Mix and add water if necessary to form a slurry. Scoop up slurry and wash site with soda ash solution. Place recovered materials in chemical waste containers 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: Use NIOSH/MSHA approved respirator if vapor levels exceed the TLV.
Ventilation: General (mechanical) room ventilation should be sufficient.
Gloves: Impervious (neoprene, nitrile rubber, PVC)

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S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y	Delayed (Chronic) Health: Y
Sudden Release of pressure: N	Fire: N
Reactive: N	

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