



Sure-Gro Inc.
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MATERIAL SAFETY DATA SHEET

PRODUCT: Total WipeOut®, (Concentrate)

SECTION 1 - PRODUCT INFORMATION

P.C.P. Act Registration No.: 25301

Code: 7 20305 0

Chemical Name: Ammonium DL-homoalanin-4-yl(methyl) phosphinate

7 20306 0

Synonyms: Glufosinate-Ammonium

Chemical Family:

Product Use: Domestic Non-selective herbicide

TDG Classification: Not Regulated

Manufacturer: Aventis CropScience Canada Co.

295 Henderson Drive
Regina, Saskatchewan
S4N 6C2

24 hr Emergency Number (306) 721-4500

Product Information (800) 667-5959

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS REG #	LD50 (mg/Kg)	T.W.A. - T.L.V.
Glufosinate-Ammonium	60	77182-82-2	Oral, rat >5000 Dermat, rat >4000	LC50, rat 2.19 mg/L/4h

SECTION 3 - PHYSICAL DATA

Physical State: Liquid

Specific Gravity: 1.030

Boiling Point: No Data

Vapour Pressure: No Data

% Volatiles: No Data

Solubility in Water: Soluble

Appearance/Odour: Bluish green solution with aromatic odour

pH: 5.5 +/- 1.0

Freezing/Melting Point: Approx. 0 °C

Vapour Density: No Data

Evaporation Rate: No Data

SECTION 4 - FIRE AND EXPLOSION

Flash Point: > 100 °C

Lower Explosion Limit %: No Data

Fire Extinguishing Media: Foam, Dry Chemical, Water Fog, Water

Fire Fighting Procedures: Wear self-contained Breathing Apparatus and impervious clothing. Minimize amount of water used and contain the run-off by diking.

Other Fire or Explosion Hazards: None known.

Autoignition Temperature: No Data

Upper Explosion Limit %: No Data

SECTION 5 - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None known.

Incompatibility (Materials to Avoid): Strong oxidizing agents, acids and bases.

Hazardous Decomposition Products: Thermal decomposition may generate toxic smoke, Carbon Monoxide, Carbon Dioxide and Ammonia.

Hazardous Polymerization: Will Not Occur

SECTION 6 - HEALTH HAZARD DATA

Acute Effects of Overexposure: No known cases of human poisoning. Animal testing showed dis-equilibrium, spasms, salivation, lacrimation and sedation. Direct contact with eyes causes mild irritation and is a slight skin

Total WipeOut®, (Concentrate)

irritant.

Effects of Chronic Exposure: This product is not considered a carcinogen and is not listed by OSHA, IARC or NTP.

SECTION 7 - FIRST AID PROCEDURES

Inhalation: Move victim to fresh air. Give Artificial Respiration ONLY if required. Give CPR if there is NO breathing AND NO pulse. Obtain medical advice if symptoms persist.

Skin Contact: Flush skin with running water and thoroughly wash with soap and water. If irritation persists seek medical attention.

Ingestion: Give 1 to 2 glasses (200 to 500 ml) of water to dilute material. DO NOT induce vomiting. If vomiting occurs, lean victim forward with head down to avoid breathing vomitus. OBTAIN MEDICAL ADVICE.

Note to Physicians: Glufosinate-ammonium is a glutamine synthetase inhibitor and can interfere with neurotransmitter function. Symptoms can be delayed by up to 48 hours following ingestion. Thus a patient ingesting undiluted product should be admitted to a hospital for at least 24 hours and treated as outlined below.

Treatment should be symptomatic and supportive. In addition, the following procedures are generally recommended: If ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration. Respiratory, Cardiac and Central Nervous systems should be monitored with particular regard to ECG, electrolyte balance (especially for potassium) and signs of increased intracranial pressure. In the event of a large exposure, dialysis and/or hemoperfusion should be conducted as soon as possible to eliminate the compound from the body. In the event of convulsions, administer Phenobarbital or diazepam. There is no specific antidote. Glufosinate-ammonium does not inhibit cholinesterase, thus atropine and 2-PAM are contraindicated. Recovery is normally spontaneous, usually within 48 hours.

Eye Contact: Flush eyes with running water for 20 minutes. Hold eyelids open during flushing. If irritation persists seek Medical Attention.

SECTION 8 - PREVENTIVE MEASURES

Respiratory Protection: Not required for normal usage.

Eye Protection: Safety goggles.

Skin Protection: Chemical resistant gloves.

Other Personal Protective Equipment: Coveralls.

Engineering Controls: Local exhaust or ventilation.

Handling Procedures and Equipment: Avoid breathing vapours, contact with eyes, skin and clothing. Wash thoroughly after use.

Storage Requirements: Store in cool, dry, ventilated area. Keep out of reach of children and pets.

Storage Temperature: Min: 5 °C Max: 50 °C

SECTION 9 - ENVIRONMENTAL PROTECTION DATA

Spill and Leak Procedures: Stop leak, contain spill by diking and absorb with suitable absorbent and transfer into waste container for disposal. Clean area with detergent and water, absorb wash and place in waste container. Remove any contaminated soil for proper disposal.

Waste Disposal: Dispose of empty container in household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

Environmental Effects: Do not contaminate local water supplies or environments. This product is slightly toxic to fish.

The information contained herein is considered accurate and offered only as a guide to the handling of this specific material. This information, does not relate to its use with any other material or product or in any process. No warranty, expressed or implied is made regarding the accuracy of the data or the performance of the material by Sure-Gro Inc. This Material Safety Data Sheet is valid for three years from Issue Date.

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Code 105

Prepared by: Technical Department

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