

Perfect Harmony

All Natural Bio-Eliminator

DESCRIPTION

Perfect Harmony is a weed and grass killer. *Perfect Harmony* eliminates unwanted vegetation, grasses, and most weeds including dandelion, clover, chickweed and bluegrass.

SPECIAL INFORMATION

Avoid contact with eyes and skin. Do not breathe in vapors and keep container tightly closed. Store upright at room temperatures. Keep from freezing and direct heat sources.

DIRECTIONS

Dilute *Perfect Harmony* with equal parts water (50:50). Use a pump sprayer and spray directly onto weed.

Note: Do not over-spray onto grass. *Perfect Harmony* is safe for pets when thoroughly dry.

Other Uses:

Perfect Harmony can also be used to remove hardened paint from brushes: simmer in boiling *Perfect Harmony* and water (50:50 dilution) then wash in hot, soapy water.

PHYSICAL DATA

Appearance	Liquid
Color	Clear
Foam	None
Odor	Strong vinegar odor
pH	0.5 - 1.5

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **PERFECT HARMONY**

WHMIS CODE: E

Proper Shipping Name: ACETIC ACID SOLUTION, more than 10% and less than 50% acid, by mass

Product Use: *Natural bio-eliminator*

Hazard Class: Class 8, PG III

UN Number: UN2790 (Ltd. Qty.)

HMIS

3	Health
0	Flammability
0	Reactivity
C	Personal

A=Goggles, B=Goggles & Gloves
C=Goggles, Gloves and Apron

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ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
ACETIC ACID	68439-46-3	64-19-7	20.0-30.0	N/A
LD50 (oral rat)	3310 mg/kg			
LD50 (dermal rabbit)	1060 mg/kg			

SECTION 3 – PHYSICAL DATA

Color and Odor: Colorless, vinegar-like/pungent. **Boiling Point:** 100.91°C **Vapor Pressure (mm HG):** N/D **pH:** 2.8 @ 6.0% solution.
Physical State: Liquid. **Melting Point:** 16.6°C **Vapor Density:** N/D **Specific Gravity:** 1.03 @ 20°C
Coef. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** 0.48ppm

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: N/A **Auto ignition Temperature:** N/A
Flammable Limits: N/A **Sensitivity to Static Discharge:** N/A.
Conditions of Flammability: Non-flammable **Sensitivity to Mechanical Impact:** N/A.
Unusual Fire and Explosion Hazards: Vapors may form explosive mixtures with air. Reactions between acetic acid and the following materials are potentially explosive: 5-azidotetrazole, bromine pentafluoride, chromium trioxide, hydrogen peroxide, potassium permanganate, sodium peroxide, and phosphorus trichloride. Dilute acetic acid and dilute hydrogen can undergo an exothermic reaction if heated, forming peracetic acid which is explosive at 110°C. Reaction between chlorine trifluoride and acetic acid is very violent, sometimes explosive.
Special Fire Fighting: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable **Hazardous Polymerization:** Will not occur
Incompatibility (material to avoid): Slightly reactive to reactive with oxidizing agents, reducing agents, metals, acids, and alkalis.
Special Remarks on Reactivity: Reacts violently with strong oxidizing agents, acetaldehyde, and acetic anhydride. Material can react with metals, strong bases, amines, carbonates, hydroxides, phosphates, many oxides, cyanides, sulfides, chromic acid, nitric acid, hydrogen peroxide, carbonates, ammonium nitrate, ammonium thiosulfate, chlorine trifluoride, chlorosulfonic acid, perchloric acid, permanganates, xylene, oleum, potassium hydroxide, sodium hydroxide, phosphorus isocyanate, ethylenediamine, ethylene imine.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eye, inhalation, ingestion.
Irritancy of Product: Corrosive to eyes and skin **Carcinogenicity:** N/A
Name of Toxicological Synergistic Product: None known. **Teratogenicity:** None known.
Reproductive Toxicity: N/A
Effects of Chronic Exposure: May cause erosion of dental enamel, bronchitis, eye irritation, darkening of the skin, and chronic inflammation of the respiratory tract. Acetic acid can cause occupational asthma.
Effects of Acute Exposure to Product: Causes eye irritation or burns. Higher concentrations may cause irreversible eye damage. Causes skin irritation or burns. May be harmful if absorbed through skin. Higher concentrations may cause blackening and hyperkeratosis of the skin. May cause irritation or burns to the digestive tract

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Personal Protection: Splash goggles. Synthetic apron. Vapor respirator. Gloves (impervious).
Storage and Handling Procedures: Store in a segregated and approved area. Keep container in a cool, well ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
Disposal Procedures for Spills or Leaks:
Small Spill: Absorb with inert, non-combustible material.
Large Spill: Dam and absorb spill with sand, earth, or other inert, non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Wash thoroughly after dealing with spillage.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
In case of contact with eyes, flush with clean water for 15 minutes. For contact with skin, wash with water for 15 minutes, cover the irritated skin with an emollient. If irritation occurs or persists, get medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
If swallowed, do not induce vomiting. Loosen tight clothing such as a collar, tie, belt. Get medical attention if symptoms appear.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 09/06/11
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE