

SAFETY DATA SHEET

Product Name: Munger Horticultural Vinegar Plus

1. IDENTIFICATION

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|---|---|
| Product name: | Munger Horticultural Vinegar Plus |
| Chemical name of active ingredient(s): | Acetic Acid (Vinegar) |
| Registration No.: | PCP Registration No.: 29405 |
| Recommended Use: | Herbicide |
| Manufacturer/Registrant: | Munger Lawnscape Distribution 4231 Concession 4, RR # 4 Harrow, ON N0R 1G0 Phone: 519-738-2571 |
| For fire, spill, and/or leak emergencies: | Contact CANUTEC Phone (613) 996-6666 |
| For medical emergencies and health and safety inquiries: | Contact CANUTEC Phone (613) 996-6666 |

2. HAZARDS IDENTIFICATIONS

Hazard Classifications:

Skin irritation: Category 2
Eye irritation: Category 1

Signal Word: DANGER

Pictogram:



Hazard Statements:

- Cause skin irritation.
- Cause serious eye damage

Precautionary Statements:

- Wash hand and face thoroughly after handling. Wear protective gloves. If on skin: wash with plenty of water. If skin irritation occurs: get medical advice. Take off contaminated clothing and wash it before reuse.
- Wear eye protection and face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center.

Storage and Disposal: See Section 7 and 13.

Other Hazards: See Section 11 and 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| COMMON NAME | CAS NO. | % BY WEIGHT |
|-------------|---------|-------------|
| Acetic Acid | 64-19-7 | 20 |

NA=not available

4. FIRST AID MEASURES

FIRST AID:

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or

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doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT: No flash when 10% vinegar sample test in tag closed cup tester.

FLAMMABLE LIMITS:

LFL/UFL: Not applicable

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide or water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No data available.

FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: If vinegar is spill, water may be used to dilute. Dispose of waster material in accordance with local, provincial/state and federal requirements.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid contact with eyes and inhaled. Where contact with this material is likely, eye protection is recommended.

PRECAUTIONS TO BE TAKEN IN STORAGE: To prevent contamination store this product way from food or feed. Keep from freezing. Store in original container out of reach of children.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Wear safety goggles or full-face shield.

SKIN PROTECTION: Rubber gloves, long sleeve shirt, rubber boots and slacks.

VENTILATION: General ventilation.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Minimize airborne concentrations. Avoid spraying on windy days. Avoid inhaling vapour or spray mist.

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EXPOSURE LIMITS:

| COMMON NAME | CAS NO. | % | OSHA PEL | ACGIH TLV | OTHER |
|-------------|---------|----|-----------------------------------|--|--|
| Acetic Acid | 64-19-7 | 20 | 10 ppm (25 mg/m ³) | 10 ppm (25 mg/m ³) (8 hours) | 15ppm (37mg/m ³) (STEL, 15mins.) 50ppm (125 mg/m ³) (IDHL, > 30mins.) |

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear and colourless liquid

ODOR: Vinegar

FLASH POINT: Not available

pH: Not available

DENSITY: Not available

WATER SOLUBILITY: Not available

VAPOR PRESSURE: Not available

BOILING POINT: Not available

FREEZING POINT: Not available

OCTANOL/WATER PARTITION COEFFICIENT: Not available

FLAMMABILITY (solid, gas): Not available

VISCOSITY: Not available

EXPLOSIVE: Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

INSTABILITY CONDITIONS AND MATERIALS TO AVOID: Strong oxidizing agents, strong bases. Avoid application to reactive metals such as aluminum, tin, iron, or items such as fencing or lawn furniture in order to prevent staining, mottling, or otherwise interfering with finished metal surfaces.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD50 (Rat): >5,000 mg/kg

Acute Dermal LD50 (Rat): >5,000 mg/kg

Acute Inhalation LC50 (Rat): Prolonged inhalation of product vapors may cause respiratory tract irritation

Eye Irritation (Rabbit): Eye irritant

Dermal Irritation (Rabbit): Skin irritant

Dermal Sensitization (Guinea Pig): Not a skin sensitizer

Aspiration Hazard: No data available

Toxicological Information:

Chronic/Subchronic Toxicity: No data available.

Reproductive/Developmental Effects: No data available

Mutagenicity: No data available

Specific Target Organ Systemic Toxicity (Repeated Exposure): No data available.

Carcinogenicity: Not available

Carcinogenicity Assessment:

ACGIH: None

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NTP : None
IARC : None
OSHA : None

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product may be toxic to aquatic organisms. Do not apply or allow runoff to reach lakes, streams and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

AQUATIC TOXICITY:

Rainbow Trout LC₅₀ (96-h) (semi-static): > 1,000 mg/L

Daphnia magna (48-h) EC₅₀: > 300.82 mg/L

AVIAN TOXICITY: No data available

ENVIRONMENTAL FATE: No data available

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PESTICIDE DISPOSAL: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and in accordance with provincial requirements.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

14. TRANSPORT INFORMATION

As required by Part 2 of the Transportation of Dangerous Goods Regulations, this product has been classified using the test method displayed for Class 8, Corrosives.”

In accordance with TDGR:

UN Number: UN2790

Shipping Name: ACETIC ACID SOLUTION

Class: Class 8

Packing Group: PG II

15. REGULATORY INFORMATION

CANADIAN REGULATIONS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the WHMIS 2015.

Acetic acid (CAS # 64-19-7) is included on the Canadian Ingredient Disclosure List.

U.S. FEDERAL REGULATIONS:

REGULATIONS UNDER FIFRA: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

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Section 313: Not applicable.

CA PROPOSITION 65: Not applicable.

CERCLA RQ: Acetic acid RQ = 5000 lbs.

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt

16. OTHER INFORMATION

| NFPA HAZARD RATINGS | NFPA | |
|---------------------|------|------------|
| HEALTH: | 1 | 0 MINIMAL |
| FLAMMABILITY: | 0 | 1 SLIGHT |
| REACTIVITY: | 0 | 2 MODERATE |
| | | 3 HIGH |
| | | 4 SEVERE |

SDS DATE: January 1/2021. Revised for WHMIS 2015 GHS requirements.

The information herein is given in good faith, but no warrant, express or implied, is made. The preparer assumes no legal responsibility for use or reliance on these data.