



MATERIAL SAFETY DATA SHEET

Product Name: Serene

1. IDENTIFICATION

Date: November 18, 2020

| | |
|---|---|
| Product name: | Serene |
| Registration Number: | 30248 (Pest Control Products Act) |
| Chemical name of active ingredient(s): | Acetic Acid |
| Registrant: | Belchim Crop Protection Canada, Inc. 104 Cooper Drive, Unit 3 Guelph, Ontario N1C 0A4 www.belchimcanada.com |
| For fire, spill, and/or leak emergencies, call | Phone – 1-866-336-8983 |
| For medical emergencies and health and safety inquiries, call | Phone – 1-866-336-8983 |

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES

Appearance: Clear and colourless non-viscous liquid

Odor: Free from any off odours

EMERGENCY OVERVIEW: KEEP OUT OF REACH OF CHILDREN. CAUTION-Skin Irritant. Corrosive to the eye. Do not get in eye. May irritate skin. Avoid inhaling. Avoid contact with skin and clothing. Wash immediately after use. Avoid all contact with desirable plants. Overspray or drift will injure contacted foliage.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

PRIMARY ROUTES OF EXPOSURE: Eye contact and inhalation.

POTENTIAL HEALTH EFFECTS

Eye: Eye contact will cause eye irritation.

Inhalation: Prolonged inhalation of vapours may cause irritation to respiratory tract.

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

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 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: Will not burn.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

FIRE-FIGHTING PROCEDURES: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: If vinegar is spilt, water may be used to dilute. Dispose of waster material in accordance with local, provincial 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 and out of reach of children.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: DO NOT get in eye. Wear safety goggles or full-face shield.

SKIN PROTECTION: Wear long-sleeved shirt, long pants, chemical resistant gloves and shoes plus socks during loading, application, and when performing clean-up and maintenance activities.

VENTILATION: General ventilation.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Minimize airborne concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear and colourless non-viscous liquid

ODOR: Free from any off odours

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

pH: 2-3

DENSITY: 1.022 – 1.032 @20°C

WATER SOLUBILITY: Complete

VAPOR PRESSURE: 16.9 mmHg @68°F (10% acetic acid)

BOILING POINT: 214°F @760 mmHg (10% acetic acid)

FREEZING POINT: 26°F (10% acetic acid)(calculated)

OCTANOL/WATER PARTITION COEFFICIENT: 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

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.

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

ACETIC ACID SOLUTION, UN 2790, Class 8, 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 MSDS contains all the information required by the CPR.

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

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

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: November 18, 2020

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.