

Material Safety Data Sheet



Transportation and Medical Emergency Phone: **1-800-535-5053 (INFOTRAC)**

General Phone: 317-580-8282

EPA Reg. No.: 67690-30

Creation Date: 03/10/2005

Revision Date: 07/18/2006

Avast!® SC Herbicide

SePRO Corporation Carmel, IN 46032-4565

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Avast!® SC Herbicide

COMPANY IDENTIFICATION:

SePRO Corporation

11550 North Meridian Street, Suite 600

Carmel, IN 46032-4565

www.sepro.com

Information Phone: 317-580-8282 (Monday - Friday, 8:00 am to 5:00 pm EST)

2. HAZARDOUS IDENTIFICATIONS

EMERGENCY OVERVIEW

Light tan to gray opaque liquid with a slight odor.

- May cause eye and skin irritation.

EMERGENCY PHONE NUMBER: 1-800-535-5053

3. COMPOSITION / INFORMATION ON INGREDIENTS

Fluridone:	CAS # 059756-60-4	41.7%
1-Methyl-3-phenyl-5-[3-(trifluoro-methyl)phenyl]-4(1H)-pyridinone		
Other Ingredients, including:		
Propylene Glycol	CAS # 000057-55-6	58.3%

4. FIRST AID MEASURES

EYES: Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.

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

INGESTION: Call a poison control center 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

NOTE TO PHYSICIAN: No specific antidote. Use supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: 200°F (93.3°C)

METHOD USED: SCC

EXTINGUISHING MEDIA: Product is a water-based suspension and will not burn. If product is involved in a fire and the water evaporates, use a water fog, carbon dioxide, dry chemical or foam as extinguishing methods.

FIRE AND EXPLOSION HAZARDS: This product will not burn until a sufficient amount of water has evaporated. At this point, the product will exhibit the flammability characteristics of the organic portion of this formulation. Keep unnecessary people away, isolate the hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situations.

FIREFIGHTING EQUIPMENT / INSTRUCTIONS: Wear positive-pressure, self-contained breathing apparatus and full protective clothing. Keep personnel removed and upwind of fire.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Use absorbent material to contain and clean up small spills and dispose as waste. Report large spills to **INFOTRAC at 1-800-535-5053** and consult **SePRO Corporation** for assistance. Prevent runoff.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Harmful if swallowed, absorbed through the skin, or inhaled. Avoid breathing spray mist or contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Wash exposed clothing before reuse.

Keep Out of Reach of Children.

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8. EXPOSURE CONTROL/PERSONAL PROTECTION

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINES: Propylene Glycol: AIHA WEEL is 50 ppm total, 10 mg/M³ aerosol only.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guidelines. If respiratory irritation is experienced, use a NIOSH approved air-purifying respirator.

SKIN PROTECTION: Use gloves impervious to this material when prolonged or frequently repeated contact could occur.

EYE/FACE PROTECTION: Use safety glasses.

APPLICATORS AND ALL OTHER HANDLERS: Refer to the product label for personal protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light tan to gray opaque viscous liquid

ODOR: Slight

pH: (aqueous 50/50) 8.45

BOILING POINT: (@ 1 atmosphere) 212°F (100°C)

VAPOR PRESSURE: 2.3 mmHg @ 25°C

SPECIFIC GRAVITY: 1.15 @ 25°C

SOLUBILITY IN WATER: Disperses in water

VISCOSITY: 780 cps

LIQUID DENSITY: 1.12 g/mL @ 22°C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal storage conditions.

INCOMPATIBILITY: (Specific materials/conditions to avoid)
Avoid freezing.

HAZARDOUS DECOMPOSITION PRODUCTS: If water evaporates, residues may produce harmful vapors under fire conditions.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: May cause slight (temporary) eye irritation. Corneal injury is unlikely.

SKIN: A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. Prolonged exposure may cause slight skin irritation. Fluridone did not cause allergic skin reactions when tested in guinea pigs. The LD₅₀ for skin absorption in rabbits is >2000 mg/kg.

INGESTION: Single dose oral toxicity is low. The oral LD₅₀ for rats is >5000 mg/kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

INHALATION: At room temperature, vapors are minimal due to physical properties; a single exposure is not likely to be hazardous.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:

Fluridone, in animals, has been shown to cause liver and kidney effects.

CANCER INFORMATION: Fluridone did not cause cancer in laboratory animal studies.

TERATOLOGY (BIRTH DEFECTS): Fluridone did not cause birth defects; other fetal effects occurred only at doses toxic to the mother.

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REPRODUCTIVE EFFECTS: Fluridone did not interfere with reproduction in animal studies.

MUTAGENICITY: For fluridone, in-vitro mutagenicity studies were predominantly negative and animal mutagenicity studies were negative.

12. ECOLOGICAL INFORMATION

Follow label use directions carefully so as to avoid adverse effects on non-target organisms. In order to avoid impact on threatened or endangered aquatic plant or animal species, users must consult their state fish and game agency or the U.S. Fire and wildlife Service before making applications.

Do not contaminate water when disposing of equipment wash waters. Do not apply in tidewater or brackish waters. Low rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example shallow shoreline areas. Trees and shrubs growing in water treated with Avast! may occasionally develop chlorosis.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site per label use directions or at an approved waste disposal facility. Follow all local, state, and federal requirements for disposal.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)	Not Regulated
International Air Transport Association (IATA)	Not Regulated
International Maritime Organization (IMO)	Not Regulated

For additional shipping information contact SePRO Corporation at 317-580-8282 and speak with the Logistics Manager.

15. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA TITLE III, SECTION 313: To the best of our knowledge, this product contains no chemical subject to SARA Title III, Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An Immediate Health Hazard
- A Delayed Health Hazard

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in Section 1 of the MSDS.

Chemical Name	CAS Number	List
Propylene Glycol (1,2-Propanediol)	000057-55-6	PA1 [†]

[†]PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, OR SUPERFUND): Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 701):
(4 = Extreme; 3 = High; 2 = Moderate; 0 = Insignificant)

Health	1
Flammability	0
Reactivity:	0

16. OTHER INFORMATION, USES AND RESTRICTIONS

MSDS STATUS:

New – 03/10/2005

Revised – 07/18/06, Sections 1, 2, 3, 10, 11, 14

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult SePRO Corporation for Further Information.