

# Material Safety Data Sheet



Transportation and Medical Emergency Phone: 1-800-535-5053  
(INFOTRAC)  
General Phone: 317-580-8282

EPA Reg. Number: 67690-12  
Effective Date: 10/20/01

## Sonar\* PR Precision Release\* Herbicide

SePRO Corporation Carmel, IN 46032

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** Sonar\* PR Precision Release Herbicide

#### COMPANY IDENTIFICATION:

SePRO Corporation  
11550 North Meridian Street, Suite 600  
Carmel, IN 46032  
www.sepro.com

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Fluridone: 1-Methyl-3-phenyl- 5-(3-(Trifluoro-methyl)phenyl)- 4(1H)-Pyridinone	CAS # 059756-60-4	5%
Inert Ingredients, Total, Including Clay (Crystalline Silica)	CAS # 001332-58-7	95%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

### 3. HAZARDOUS IDENTIFICATIONS

#### EMERGENCY OVERVIEW

Dark gray to dark brown pellet with a faint musty odor. May cause eye irritation. LD<sub>50</sub> for skin absorption in rabbits is >2000 mg/kg. Oral LD<sub>50</sub> for rats is >5000 mg/kg.

**EMERGENCY PHONE NUMBER:** 800-535-5053

**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 eye irritation and/or slight transient (temporary) corneal injury.

**SKIN:** Essentially non-irritating to skin. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The LD<sub>50</sub> for skin absorption in rabbits is >2000 mg/kg. Fluridone did not cause allergic skin reactions when tested in guinea pigs.

**INGESTION:** Single dose oral toxicity is extremely low. The oral LD<sub>50</sub> for rats is >5000 mg/kg. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

**INHALATION:** Single exposure to dust is not likely to be hazardous. Dust may cause irritation to upper respiratory tract (nose and throat).

#### SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:

Fluridone, in animals, has been shown to cause liver and kidney effects. Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs. Some evidence suggests that kidney effects may result from excessive exposures also.

**CANCER INFORMATION:** Fluridone did not cause cancer in laboratory animals. This product contains clay that has naturally occurring crystalline silica as quartz. Crystalline silica is listed by IARC and NTP as a carcinogen for hazard communication purposes under OSHA Standard 29 CFR Part 1910.1200.7. Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury.

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

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

### 4. FIRST AID

**EYE:** 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. Never give anything by mouth to an unconscious person.

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**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. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** Not applicable  
**METHOD USED:** Not applicable

**FLAMMABLE LIMITS:**  
**LFL:** Not applicable  
**UFL:** Not applicable

**AUTO-IGNITION TEMPERATURE:** No ignition up to 1382°F (750°C)

**EXTINGUISHING MEDIA:** Use water, CO<sub>2</sub>, or dry chemicals.

**FIRE AND EXPLOSION HAZARDS:** Will emit toxic vapors as it burns.

**FIREFIGHTING EQUIPMENT:** Wear positive-pressure, self-contained breathing apparatus and full protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS AND LEAKS:** Contain and sweep up small spills and dispose as waste. Report large spills to INFOTRAC and consult SePRO Corporation for assistance. Prevent runoff.

### 7. HANDLING AND STORAGE

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

### 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:** Crystalline silica: ACGIH TLV is 0.05 mg/M<sup>3</sup> for quartz, tripoli, and fused silica; 0.05 mg/M<sup>3</sup> (respirable) for cristobalite and tridymite. OSHA PEL is 10%/SiO<sub>2</sub> + 2 mg/M<sup>3</sup> (respirable) for quartz, tripoli, and fused silica; 1/2 the value calculated from the respirable dust formula for quartz for cristobalite and tridymite.

PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

**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. In dusty atmospheres, use a NIOSH approved dust respirator.

**SKIN PROTECTION:** Use gloves impervious to this material.

**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

**SOLUBILITY IN WATER:** Insoluble (disintegrates in water)

**APPEARANCE:** Dark gray or dark brown pellet

**ODOR:** Faint musty

**pH:** (aqueous 50/50) 3.5

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### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal storage conditions.

**INCOMPATIBILITY:** (Specific materials to avoid)  
Not determined.

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
None known.

**HAZARDOUS POLYMERIZATION:** Not known to occur.

### 11. TOXICOLOGICAL INFORMATION

**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. Fish and Wildlife Service before making applications. Do not contaminate water when disposing of equipment wash waters. Trees and shrubs growing in water treated with Sonar PR Precision Release may be injured. Do not apply in tidewater or brackish waters.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL:** 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

For DOT regulatory information, if required, consult transportation regulations, product shipping papers, or your SePRO Corporation representative.

### 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

#### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 701):

(4=Extreme; 3=High; 2=Moderate; 0=Insignificant)

Health	1
Flammability	0
Reactivity	0

**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.

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Chemical Name	CAS Number	List
Crystalline Silica	001332-58-7	NJ3, PA1

NJ3=New Jersey Workplace Hazardous Substance  
(present at  $\geq$  to 1.0%).

PA1=Pennsylvania Hazardous Substance  
(present at  $\geq$  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).

### 16. OTHER INFORMATION

**MSDS STATUS:** New

The information herein is given in good faith, but no warranty, express or implied, is made. Consult SePRO Corporation for further Information.