

Material Safety Data Sheet



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

General Phone: 317-580-8282

EPA Reg. No.: 71711-25-67690

Revision Date: 10/22/2008

Octane[®] 2% SC Herbicide

SePRO Corporation Carmel, IN 46032-4565

1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT: Octane 2% SC Herbicide

COMPANY IDENTIFICATION:

SePRO Corporation

11550 North Meridian Street, Suite 600

Carmel, IN 46032-4562

www.sepro.com

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

2. HAZARDOUS IDENTIFICATIONS

EMERGENCY OVERVIEW

Caution

- Toxic to fish and aquatic invertebrates

EMERGENCY PHONE NUMBER: 1-800-535-5053

POTENTIAL HEALTH EFFECTS:

Primary Route(s) of Entry: Skin contact

EYE: Causes slight eye irritation.

SKIN: Can cause mild skin irritation. Harmful if absorbed through the skin. Does not cause skin sensitization in animal studies.

INGESTION: No specific health effects are associated with ingestion of a small amount incidental to routine handling and use. **INHALATION:** No specific health effects associated with inhalation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Active Ingredient:

Pyraflufen-ethyl:	CAS #129630-19-9	2.0%
(ethyl 2-chloro-5-(4-chloro-5-difluoromethoxy-1-methyl-1H-pyrazol-3-yl) 4 fluorophenoxyacetate)		

Other Ingredients:	9.5%
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Water	88.5%
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4. FIRST AID MEASURES

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 center or doctor for further treatment advice.

IF IN 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.

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

IF SWALLOWED: 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.

5. FIRE FIGHTING MEASURES

FLASH POINT: No flash observed at temperatures up to 110°C.

FIRE & EXPLOSION HAZARDS: No known explosion characteristics. Will burn to give off toxic oxides of carbon and nitrogen.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, or dry powder.

FIRE-FIGHTING INSTRUCTIONS: Wear positive pressure, self-contained breathing apparatus. Spray containers with water to keep cool. Avoid runoff from extinguishing media such as water, foam, and dry chemicals into ponds, rivers, and lakes due to danger of acute toxicity to aquatic organisms.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL OR LEAK: Liquid spills on the floor or other impervious surfaces should be contained or diked and then absorbed with sawdust, sand, bentonite, or other absorbent clay. Collect contaminated absorbent, and place it in a metal drum. Thoroughly scrub the floor or other impervious surface with a strong industrial-type detergent and rinse with water.

Liquid spills that soak into the ground should be dug up and placed in metal drums. When a large spill or leakage is found, wear protective clothing and respirator to avoid exposure.

Avoid contaminated absorbents or water flow into ponds, rivers, and lakes, due to the danger of acute toxicity to aquatic organisms.

Notify the appropriate authorities immediately (see Section 15 for any applicable Reportable Quantity). Also, report to authorities if contamination of waterways has occurred.

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7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

- Open container with care.
- Use adequate ventilation.
- Avoid handling near an open flame or heat source or ignition source.
- Do not contaminate water by cleaning of equipment or disposal of waste.
- Avoid contact with skin, eyes, or clothing.
- Do not eat, drink, smoke, or chew gum or tobacco while handling this product and until hands and face are thoroughly washed with soap and water.
- Do not use the toilet before thoroughly washing hands.
- Remove contaminated clothing immediately and wash thoroughly before reuse.

STORAGE PRECAUTIONS:

- Keep container closed. Store in the original container.
- Keep container at room temperature or store in a cool place.
- Avoid storage in direct sunlight, excessive heat or cold.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary under certain confined conditions. If practical, use ventilation at the sources of air contamination.

EYE/FACE PROTECTION: Safety glasses

SKIN PROTECTION: Chemical resistant gloves

RESPIRATORY PROTECTION: Ensure good ventilation. If not adequate, use a suitable respirator.

OTHER/GENERAL PROTECTION: The following personal protective equipment (PPE) must be worn when using product or upon early entry into treated areas during the Restricted Entry Interval (REI):

- Coveralls;
- Chemical-resistant gloves; and
- Shoes plus socks.

Note: Refer to the product label for applicable details concerning the "User Safety Recommendations" and the use of PPE under the EPA Worker Protection Standards (40 CFR Part 170).

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND PHYSICAL STATE: White, milky liquid

ODOR: Slight nonspecific odor

BOILING POINT: Not available

MELTING POINT: Not applicable

VAPOR PRESSURE: Not available

DENSITY: 1.023

VISCOSITY: Non-Newtonian

pH: 6.84 at 24°C (1% aqueous dilution)

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions

FLASH POINT: No flash observed at temperatures up to 110°C.

AUTO IGNITION: Not ignition below 400°C

HAZARDOUS POLYMERIZATION: None

11. TOXICOLOGICAL INFORMATION

The following data were developed using Octane 2% SC.

ACUTE STUDIES:

Oral	Rat LD ₅₀	Male: > 5,000 mg/kg Female: > 5,000 mg/kg
Dermal	Rat LD ₅₀	> 2,000 mg/kg
Inhalation	Rat LD ₅₀	> 5.53 mg/L
Eye Irritation	Rabbit	Slightly irritating
Skin Irritation	Rabbit	Slightly irritating
Skin Sensitization	Guinea Pig	Non-sensitizing

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

The following data were developed using pyraflufen-ethyl technical.

SUBCHRONIC AND CHRONIC EFFECTS: A 90-day rat feeding study was conducted at dose levels up to 15,000 ppm pyraflufen-ethyl showing liver and kidney effect at the high dose (15,000 ppm, ~1,500 mg/kg). The NOEL in this study was considered to be 1,000 ppm. In a 90-day oral toxicity study in dogs, pyraflufen-ethyl was administered at dose level up to 1,000 mg/kg/day. No effects in body weight or organ weight, clinical chemistry, hematology, histopathology, or gross pathology were observed.

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In long-term studies, no effects were observed in dogs exposed for one-year to a maximum dose of 1,000 mg/kg. In a two-year rat chronic study, liver and kidney effects were observed at 2,000 ppm. The NOEL was 400 ppm (~20 mg/kg).

CANCER INFORMATION: Pyraflufen-ethyl was tested in lifetime studies in rats and mice. There was no evidence of carcinogenicity in the rat at doses as high as 10,000 ppm (~470 mg/kg). In the mouse study, the incidence of heptaocellular adenoma was increased in animals receiving 5,000 ppm, a dose level considered to be in excess of a MTD (maximum tolerated dose). This benign tumor was likely induced by the adaptive response to the heptaocellular degeneration and not carcinogenic response to pyraflufen-ethyl.

TERATOGENICITY: Pyraflufen-ethyl was not a developmental toxin in rats at dose levels of 1,000 mg/kg or rabbits at doses of 60 mg/kg.

REPRODUCTIVE EFFECTS: Pyraflufen-ethyl is not a reproductive toxin. In a multi-generation rat reproduction study conducted at dietary concentrations up to 10,000 ppm, pyraflufen-ethyl had no effect on reproductive parameters, including mating indices, fertility index, gestation index, duration of gestation, numbers of implantation sites, numbers and morphology of epididymal sperm, and estrous cycle at any dose level. The NOEL was 1,000 ppm, based on decreased body weight.

NEUROTOXICITY: There was no neurotoxicity seen in acute, subchronic, chronic, reproduction, and teratology studies conducted with pyraflufen-ethyl after exposure in the diet.

MUTAGENICITY: Pyraflufen-ethyl was not mutagenic in any of the genotoxicity studies conducted.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL PRECAUTIONS: This product is toxic to fish and aquatic invertebrates. This product may contaminate water through drift of spray in wind or via runoff events. Use care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from treated areas. Do not apply if rainfall is expected within one hour.

13. DISPOSAL CONSIDERATIONS

GENERAL DISPOSAL GUIDANCE: Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations. State (provincial) and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Chemical additions, processing, storage or otherwise altering this material may make the waste disposal information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. Refer to appropriate federal (RCRA: 40 CFR.261), state/provincial, or local requirements for proper classification information. For regulatory information on the ingredient components, see Section 15.

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Do not reuse empty container.

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

RCRA: There are no hazardous waste ingredients in this product.

14. TRANSPORT INFORMATION

DOT: Not regulated

IATA: Not regulated

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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. FEDERAL AND STATE REGULATIONS

EPA Registration Number: 71711-25-67690

TSCA Inventory: Registered pesticide; exempt from TSCA.

Regulatory Controls: This product is registered under the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C.). It is a violation of Federal Law to use this product in a manner that is inconsistent with its' labeling. Read and follow all label directions.

SARA Title III Notification and Information:

No components of the product are listed.

U.S. State Right-to-Know (RTK) Ingredients: None

16. OTHER INFORMATION, USES AND RESTRICTIONS

HMIS Hazard Rating:

Health: 2 Moderate

Fire: 1 Moderate

Reactivity: 0 Minimal

NFPA Hazard Rating:

Health: 2 Moderate

Fire: 1 Moderate

Reactivity: 0 Minimal

Spec. Haz.: None

MSDS STATUS:

New - 06/08/2006

Revised - 10/22/08 (NA100606):

Sections: 1 - 4, 6, 8 - 9, 11, 15 - 16

The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult SePRO For Further Information.