

# Material Safety Data Sheet



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

EPA Reg. No.: 67690-42  
Creation Date: 11/16/2006

## Renovate® OTF On Target Flakes

SePRO Corporation Carmel, IN 46032-4565

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** Renovate OTF Herbicide  
On Target Flakes

#### COMPANY IDENTIFICATION:

SePRO Corporation  
11550 North Meridian Street, Suite 600  
Carmel, IN 46032-4565  
[www.sepro.com](http://www.sepro.com)  
**Information Phone:** 317-580-8282 (Monday - Friday, 8:00 am to 5:00 pm EST)

### 2. HAZARDOUS IDENTIFICATIONS

#### EMERGENCY OVERVIEW

- Light gray, coarse flowable granule. Ammonia-like odor.
- May cause moderate eye irritation. Avoid contact with eyes or clothing.
  - Inhalation of excessive concentrations of dust may cause irritation of mucous membranes and upper respiratory tract.
  - Triclopyr did not cause cancer in laboratory animals. This product contains clay that has naturally occurring crystalline silica as quartz. Crystalline silica is listed by ACGIH, NIOSH, NTP, and IARC 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.
  - Acute Oral LD<sub>50</sub> (rat) > 5,000 mg/kg.
  - Acute Dermal LD<sub>50</sub> (rat) > 5,000 mg/kg.
  - Acute Inhalation LD<sub>50</sub> (rat) > 2.04 mg/L.
  - Not considered to be a contact sensitizer.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	W/W%
Triclopyr TEA	057213-69-1	14%
Clay (Crystalline Silica)	14808-60-7	86%

### 4. FIRST AID MEASURES

**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 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 a 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 an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT & METHOD USED:** Not Applicable

**FLAMMABLE LIMITS:** Not Applicable

**EXTINGUISHING MEDIA:** Alcohol foam or carbon dioxide.

**FIRE-FIGHTING EQUIPMENT:** Use positive-pressure, self-contained breathing apparatus and full protective clothing.

**FIRE AND EXPLOSION HAZARDS:** This product does not normally present a fire or explosion hazard, however, at concentrations exceeding 01. oz/ft<sup>3</sup> dusts can be ignited by sparks or other ignition sources. Minimize hazard by avoiding the generation of airborne dusts, electrically grounding equipment to prevent static sparks and by eliminating ignition sources in the work area. Combustion products may be hazardous.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Sweep up small spills and dispose of as waste. Report large spills to **INFOTRAC at 1-800-535-5053** and consult SePRO Corporation for assistance.

### 7. HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

**Handling:** Avoid contact with eyes or clothing. Avoid breathing dust. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Storage:** Store in dry area, in original container. Do not contaminate food, feed, or water by storage or disposal.

**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 GUIDELINE(S):

- Triclopyr TEA: The Industrial Hygiene Guideline is 2 mg/M<sup>3</sup> as acid equivalent; Skin.
- Crystalline silica: ACGIH TLV is 0.05 mg/m<sup>3</sup> TWA; OSHA PEL is 10 mg/m<sup>3</sup>/% SiO<sub>2</sub> +2 TWA.

A "skin" notation following the exposure guideline refers to the potential for dermal absorption of the material including mucous membranes and the eyes either by contact with vapors or by direct skin contact. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposures should be considered.

**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:

**EYE PROTECTION:** Safety glasses or chemical goggles are recommended.

**SKIN PROTECTION:** None required for normal use.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. For operations where the exposure limit may be exceeded, a NIOSH approved high efficiency particulate respirator is recommended.

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Light gray, coarse flowable granule

**ODOR:** Ammonia-like odor

**BULK DENSITY:** 0.676 ± 0.007 g/mL

**pH (1% @ 20°C):** 7.81 ± 0.07

### 10. STABILITY AND REACTIVITY

**STABILITY** Stable under normal storage conditions.

**INCOMPATIBILITY (Specific materials to avoid):** Contact of dry clay with turpentine, vegetable oil or other unsaturated organic compounds, or with hydrofluoric acid may generate heat and/or fire. Do not use with these compounds.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitrogen oxides and hydrogen chloride may be formed 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 moderate eye irritation.

**SKIN :** Product is essentially non-irritating to the skin. Acute Dermal LD<sub>50</sub> (rat) > 5,000 mg/kg. Not considered to be a contact sensitizer.

**INGESTION:** Low to non-existent toxicity if swallowed. Acute Oral LD<sub>50</sub> (rat) > 5,000 mg/kg.

**INHALATION:** Inhalation of excessive concentrations of dust may cause irritation of mucous membranes and upper respiratory tract. Acute Inhalation LC<sub>50</sub> (rat) > 2.04 mg/L.

**CHRONIC:** Excessive exposure may cause liver or kidney effects. Inhalation of excessive concentrations of dust, including this material, may lead to lung injury. This product contains trace amounts of crystalline silica. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling and fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function. Because the company is not aware of any scientific or medical data available indicating that exposure to dust from this product under conditions of normal use will cause silicosis, adverse effects would not be expected from normal use of this product.

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**CANCER INFORMATION:** Triclopyr did not cause cancer in laboratory animal studies. This product contains trace amounts of crystalline silica. The International Agency for Research on Cancer (IARC), in Monograph 68, has concluded that crystalline silica inhaled in the form of quartz or cristobalite, from occupational sources, is carcinogenic to humans (Group 1). However, in making the overall evaluation, the Working group noted that carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. The National Toxicology Program (NTP) classifies crystalline silica as reasonably anticipated to be a carcinogen. Because applications and exposure data indicate that exposure to respirable quartz in this product, with normal use, is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV), and because the company is not aware of any scientific or medical data available indicating that exposure to dust from this product under conditions of normal use will cause cancer, adverse effects would not be expected from normal use of this product.

**TERATOGENICITY (BIRTH DEFECTS):** For triclopyr, birth defects are unlikely. Even exposures having an adverse effect on the mother should have no effect on the fetus.

**REPRODUCTIVE EFFECTS:** For triclopyr, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

**MUTAGENICITY:** For triclopyr, in-vitro genetic toxicity studies and animal genetic toxicity studies were negative.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE:** Based largely or completely on information for triclopyr.

**MOVEMENT & PARTITIONING:** Bioconcentration potential is low (BCF <100 or Log Pow <3).

#### DEGRADATION & PERSISTENCE:

- Biodegradation under aerobic static laboratory conditions is high (BOD<sub>20</sub> or BOD<sub>28</sub>/ThOD >40%).
- The 20-Day biochemical oxygen demand (BOD<sub>20</sub>) is 0.30 p/p.
- Theoretical oxygen demand (ThOD) is calculated to be 0.75 p/p.

**ECOTOXICOLOGY:** Material is slightly toxic to aquatic organisms on an acute basis (LC<sub>50</sub> or EC<sub>50</sub> is between 10 and 100 mg/L in most sensitive species).

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Do not contaminate food, feed, or water by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL: Do not reuse 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.

### 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.

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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. REGULATIONS

**SARA 313 INFORMATION:** 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 Amendment 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

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

**STATE RIGHT-TO-KNOW:** The product is not known to contain any substances subject to the disclosure requirements of:

- New Jersey
- Pennsylvania

**CALIFORNIA PROPOSITION 65:** The following statement is made in order to comply with the California Safe Water and Toxic Enforcement Act of 1986: This product contains respirable crystalline silica, which is known to the State of California to cause cancer. (See section 11 of the MSDS for details on carcinogenicity.)

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

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 701) and HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):** (4 = Extreme; 3 = High; 2 = Moderate; 0 = Insignificant)

Category	Rating
Health	1
Flammability	0
Reactivity	0

#### COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT

**(CERCLA, OR SUPERFUND):** To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

### 16. OTHER INFORMATION, USES AND RESTRICTIONS

#### MSDS STATUS:

Creation Date: 11/16/2006

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