

Material Safety Data Sheet



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

EPA Reg. Number: 62719-324-67690
Creation Date: 01/02/2001
Revision Date: 04/14/2006

AquaPro^{*} Herbicide

SePRO Corporation Carmel, IN 46032

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: AquaPro^{*} Herbicide

COMPANY IDENTIFICATION:

SePRO Corporation
11550 North Meridian Street, Suite 600
Carmel, IN 46032

www.sepro.com

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

2. HAZARDOUS IDENTIFICATIONS

EMERGENCY OVERVIEW

Clear, pale yellow liquid. No odor.

- May cause eye irritation.
- Slightly toxic to aquatic organisms.

EMERGENCY PHONE NUMBER: 800-535-5053

3. COMPOSITION / INFORMATION ON INGREDIENTS

Glyphosate:	CAS# 038641-94-0	53.8%
	N-(phosphonomethyl)glycine, Isopropylamine Salt	
Other Ingredients		46.2%

4. FIRST AID MEASURES

EYES: Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1 - 2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

SKIN: Wash skin with plenty of water.

INGESTION: No emergency medical treatment necessary.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. 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: >214° F (>101° C)

METHOD USED: Setaflash

FLAMMABLE LIMITS:

LFL: Not determined

UFL: Not determined

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical

FIRE AND EXPLOSION HAZARDS: Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Toxic irritating gases may be formed under fire conditions.

FIREFIGHTING EQUIPMENT/INSTRUCTIONS: Use positive-pressure, self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS: Absorb small spills with an inert absorbent material such as Hazorb, Zorbball, sand or dirt.

Report large spills to **INFOTRAC** and consult SePRO Corporation for assistance.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors and spray mist. Handle concentrate in ventilated area. Wash thoroughly with soap and water after handling and before eating, chewing gum, using tobacco, using the toilet or smoking. Keep away from food, feedstuffs, and water supplies. Store in original container with the lid tightly closed. Store above 10° F (-12° C) to keep from crystallizing.

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: None established.

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed; however, if discomfort is experienced, use a NIOSH approved air-purifying respirator.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, pale yellow liquid

ODOR: None

DENSITY: 10.0 – 10.5 lbs/gal

pH: 4.8 – 5.0

SOLUBILITY IN WATER: Miscible

SPECIFIC GRAVITY: 1.21 gm/L

FREEZING POINT: -7° F to -10° F (-21° C to -25° C)

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable under normal storage conditions.

INCOMPATIBILITY: (SPECIFIC MATERIALS OR CONDITIONS TO AVOID) Galvanized or unlined steel (except stainless steel) containers or spray tanks may produce hydrogen gas which may form a highly combustible gas mixture.

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Not known to polymerize.

11. TOXICOLOGICAL INFORMATION

EYES: May cause slight temporary eye irritation. Corneal injury is unlikely.

SKIN: Essentially non-irritating to skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The LD₅₀ for skin absorption in rabbits is >5000 mg/kg. Did not cause allergic skin reactions when tested in guinea pigs.

INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. The oral LD₅₀ for rats is >5000 mg/kg.

INHALATION: Brief exposure (minutes) is not likely to cause adverse effects. The aerosol LC₅₀ for rats is 6.37 mg/L for 4 hours.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: For a similar material, glyphosate, in animals, effects have been reported on the following organ: liver.

CANCER INFORMATION: A similar material, glyphosate, did not cause cancer in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): For glyphosate IPA, available data are inadequate for evaluation of potential to cause birth defects.

REPRODUCTIVE EFFECTS: For glyphosate IPA, available data are inadequate to determine effects on reproduction.

MUTAGENICITY: For a similar material, glyphosate, in-vitro and animal genetic toxicity studies were negative.

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12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Test Type	Species	Value
Acute LC ₅₀	rainbow trout (<i>Oncorhynchus mykiss</i>)	>2500 mg/L
Acute immobilization EC ₅₀	water flea (<i>Daphnia magna</i>)	918 mg/L
Acute Oral LD ₅₀	bobwhite (<i>Colinus virginianus</i>)	>2000 mg/kg
LC ₅₀	earthworm (<i>Eisenia foetida</i>)	>1000 mg/kg
Acute contact LD ₅₀	honeybee (<i>Apis mellifera</i>)	>100 µg/bee
Acute oral LD ₅₀	honeybee (<i>Apis mellifera</i>)	>100 µg/bee
Growth inhibition EC ₅₀	green algae (<i>Selenastrum capricornutum</i>)	127 mg/L
Growth inhibition EC ₅₀	duckweed (<i>Lemna sp</i>)	24.4 mg/L

Material is practically non-toxic to aquatic organisms on an acute basis (LC₅₀ or EC₅₀ is > 100 mg/L in most sensitive species tested).

Material is practically non-toxic to birds on an acute basis (LD₅₀ is 2000 mg/kg).

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities.

This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

For all package sizes and modes of transportation: This material is not regulated for transport.

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:

- Does not meet any hazard category

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

STATE RIGHT-TO-KNOW: To the best of our knowledge, this product is not known to contain any substance subject to the disclosure requirements of any state.

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

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.

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NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 701)

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

Category	Rating
Health	1
Flammability	1
Reactivity	0

16. OTHER INFORMATION, USES AND RESTRICTIONS

MSDS STATUS: New – 01/02/01
Revised – 04/14/06: by ASDR

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