

Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc.
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Phone: 1-941-722-3285
Chemtrec: 1-800-424-9300

Product Name: BRUSH KILLER EPA Reg.No. 62719-226-829
Chemical Name: Triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid)
Synonyms: Garlon, Hammer, Triclopyr

I. INGREDIENTS

3,5,6-trichloro-2-pyridinyloxyacetic acid	8.8%	CAS# 057213-69-1
Other ingredients, total, including:	91.2%	
Water		CAS# 007732-18-5
Ethanol (0.3%)		CAS# 000064-17-5
Proprietary surfactant and emulsifiers		

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.

II. PHYSICAL DATA:

Boiling Point: Not Determined	Vapor Pressure: Not Determined	Vapor Density: Not Applicable
Solubility in Water: Soluble	Density: 1.02 g/ml @ 20°C	
Appearance: Light purple/pink liquid	Odor: Ammonia-like odor	

III. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: 200°F, 93°C method used: not available

Flammable Limits: LFL: not determined UFL: not determined

Extinguishing Media: Water, alcohol foam and CO₂

Fire & Explosion Hazards: Toxic, irritating vapors may be formed or given off if product is involved in fire. Although product is water-based, it has a flash point due to the presence of small amounts of ethanol and triethylamine.

Fire-Fighting Equipment: Use positive-pressure, self-contained breathing apparatus and full protective clothing.

IV. REACTIVITY DATA:

Stability: (conditions to avoid) Avoid sources of ignition if temperature is near or above flash point.

Incompatibility: (specific materials to avoid) Any oxidizing agent. Consult manufacturer for specific cases.

Hazardous Decomposition Products: Nitrogen oxides and hydrogen chloride may be formed if product is involved in fire.

Hazardous Polymerization: Will not occur.

V. ENVIRONMENTAL AND DISPOSAL INFORMATION:

Environmental Data: 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 washwaters.

Action To Take for Spills or Leaks: Dike large spills. Keep out of streams and domestic water supplies. Absorb small spills in inert material such as dry sand.

Disposal Method: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. If these cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office or guidance.

VI. HEALTH HAZARD DATA:

Eye: May cause moderate irritation with temporary corneal injury.

Skin Contact: Essentially nonirritating to skin. Did not cause allergic skin reactions when tested in guinea pigs.

Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

The LD₅₀ for skin absorption in rabbits is greater than 2000 mg/kg.

Ingestion: Single dose oral toxicity is considered to be low. The oral LD₅₀ is 3743 mg/kg for male rats and 4444 mg/kg for female rats. Small amounts that might be swallowed incidental to normal handling operations are not likely to cause injury; swallowing larger amounts may cause injury.

Inhalation: Single exposure to vapors is not likely to be hazardous. The LC₅₀ for rats is greater than 5.2 mg/l for 4 hours.

Systemic (other target organ) Effects: Excessive exposure may cause liver or kidney effects.

(VI. Health Hazard Data Continued)

Cancer Information: The active ingredient did not cause cancer in long-term animal studies. This product contains a small amount of ethanol; epidemiology studies provide evidence that drinking of alcoholic beverages (containing ethanol is associated with cancer, and IARC has classified alcoholic beverages as carcinogenic to humans

Teratology (birth defects): For the active ingredient, birth defects are unlikely; even exposures having an adverse effect on the mother should have no effect on the fetus.

Reproductive Effects: Triclopyr did not interfere with reproduction in animal studies.

Mutagenicity (effects on genetic material): Results of In vitro (test tube) mutagenicity tests and mutagenicity studies in animals were both negative.

VII. FIRST AID:

Eyes: Immediately flush eyes with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin: Remove contaminated clothing and wash skin with soap and water. If irritation continues, get medical attention.

Ingestion: Call a physician. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air if effects occur. Consult a physician.

Note to Physician: No specific antidote, supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

VIII. HANDLING PRECAUTIONS:

Exposure Guidelines: Ethanol (ethyl alcohol): ACGIH TLV and OSHA PEL are 1000 ppm.

3,5,6-trichloro-2-pyridinyloxyacetic acid (triclopyr), triethylamine salt: Dow industrial Hygiene Guide (for air concentrations) is 2 mg/m3 as the acid equivalent, skin (skin contact is expected to be the primary route of exposure).

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

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

Respiratory Protection: Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required for certain operations, use an approved air-purifying respirator.

Skin Protection: No precautions other than clean body-covering clothing should be needed.

Eye Protection: Use Chemical goggles or safety glasses.

IX. ADDITIONAL INFORMATION:

Special Precautions to be taken in handling and storage: See label. Keep out of reach of children. Causes eye irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin, and clothing.

Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not contaminate domestic water supplies or water used for irrigation.

X. SELECTED REGULATORY INFORMATION

(Not meant to be all-inclusive; selected regulations represented).

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 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: An immediate health hazard, A delayed health hazard, A fire hazard

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 Hazardous Communication Standard, 29 CFR 1910.1200.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health 2 Flammability 2 Reactivity 0

The information Herein is Given in Good Faith, But No Warranty, Express or Implied, is made.

Note: This product is formulated from HammerR Herbicide manufactured by DowElanco.

This information relates solely to the designated product and is not inclusive for combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.