



SAFETY DATA SHEET

Martin's Stump Killer

1. IDENTIFICATION

PRODUCT NAME: Martin's Stump Killer
DESCRIPTION: A water soluble liquid herbicide.
EPA Reg. No.: 81927-74-53883

COMPANY IDENTIFICATION:
Control Solutions, Inc.
5903 Genoa Red Bluff
Pasadena, TX 77507

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300
FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050

2. HAZARD IDENTIFICATION

WARNING

Flammable liquid and vapor (H226)
Causes eye irritation (H320)
Harmful if swallowed (H302)
Harmful to aquatic life (H402)



HAZARD CLASSIFICATION

Health Hazard	Category	Physical Hazards	Category
Acute Toxicity – Oral	4	Flammable Liquid	3
Eye Damage / Irritation	2B		
		Environmental Hazards	Category
		Hazardous to the Aquatic Environment, Acute	3

HAZARDS NOT REQUIRING CLASSIFICATION

None

PRECAUTIONARY STATEMENTS

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking (P210)
Do not eat, drink or smoke when using this product. (P270)
Wash hands and skin thoroughly after handling. (P264)
Wear chemical-resistant gloves and protective eyewear. (P280)
Avoid release to the environment in a manner not in accordance with the product label. (P273)
IF SWALLOWED: Call a poison control center or doctor if you feel unwell. Rinse mouth. (P301+P312+P330)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention (P305+P351+P338+P337+P313)
IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water. (P303+P361+P353)
In case of fire: Use foam, dry extinguishing media, CO₂ or water spray to extinguish. Refer to Section 5 for more information. (P370+P378)
Dispose of contents / containers at an approved waste disposal plant in accordance with local, State and Federal regulations. Refer to the product label for specific disposal instructions. (P501)



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3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Picloram	4-amino-3,5,6-trichloropicolinic acid, triisopropanolamine salt	1918-02-1	5.4%
2,4-D (TIPA)	2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt	32341-80-3	20.9%
Isopropanol	-	67-63-0	< 15%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Immediately call a doctor or poison control center. Do not give any liquid to the person. 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. FIREFIGHTING MEASURES

Fire and Explosion Hazards: May thermally decompose in fire releasing irritating and toxic gasses.

Extinguishing Medium: Foam, dry extinguishing media, CO₂, water spray.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Hazardous Combustion Products: Thermal decomposition will produce nitrogen oxide, sulfur oxides, carbon oxides (CO, CO₂), and aniline.

NFPA Ratings: Health – 2 / Flammability – 2 / Reactivity - 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Small Spills: Absorb using sand, vermiculite or other inert absorbent. Place contained material in appropriate container for disposal.

Large Spills: Dike spillage and recover and retain as much free liquid as possible for reuse. Pick up remainder with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. After removal, thoroughly clean contaminated area with water. Collect wash water for approved disposal.

7. HANDLING AND STORAGE

Handling: Use only in a well-ventilated area. Wear suitable personal protective clothing and equipment (see Section 8 of this SDS). Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. As soon as possible, wash thoroughly and change into clean clothing. Keep away from food, drink and animal feed.

For containers of 5 gallons or more: Do not open pour product from this container. A mechanical system (such as probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.



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For containers over 1 Gallon but Less Than 5 Gallons: Mixers and loaders who do not use a mechanical system (such as probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to other required PPE.

Storage: Keep in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Wear long-sleeved shirt and long pants, shoes, socks, chemical resistant gloves (such as barrier laminate, butyl, nitrile or neoprene rubber, polyvinyl or Viton), and protective eyewear.

General: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	blue liquid	pH:	6.5-7.5 (1% w/w)
Odor:	alcohol-like	Viscosity:	10.491 cSt @ 20°C
Melting / Freezing point:	not determined	Water Solubility:	soluble in water
Boiling Point / Boiling Range:	not determined	Partition coefficient:	not determined
Flammability:	flammable	Vapor Pressure:	not determined
Flammability Limits (upper/lower):	not determined	Density:	1.086 g/ml
Flash Point (closed cup):	39.3°C (102.7°F)		9.06 lbs./gal.
Auto-ignition Temperature:	not determined	Vapor Density:	not determined
Decomposition Temperature:	not determined	Particle Characteristics:	not determined

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperatures above 40°C (105°F) and below 6°C (40°F)

CHEMICAL STABILITY: Combustible. Stable under normal use and storage conditions. May decompose if heated.

SUBSTANCES TO AVOID: Strong oxidizing materials.

HAZARDOUS REACTIONS: This product is chemically stable. No hazardous reactions if stored and handled as prescribed/indicated.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride and oxides of nitrogen when burned.

HAZARDOUS POLYMERIZATION: Will not occur.



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11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): 1030 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 5000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.05 mg/L (4-hour)

EYE IRRITATION: Mildly irritating

SKIN IRRITATION: Slightly irritating

SKIN SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

IARC: Class 2B (chlorophenoxy herbicides)

NTP: Not Listed

OSHA: Not Listed

MUTAGENIC TOXICITY: Little evidence of mutagenic effects during *in vivo* or *in vitro* studies.

REPRODUCTIVE TOXICITY: No evidence in animal studies.

DEVELOPMENTAL TOXICITY / TERATOGENICITY: No evidence in animal studies.

12. ECOLOGICAL INFORMATION

This pesticide may be toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This pesticide is toxic to some plants at very low concentrations. Non-target plants may be adversely affected if pesticide is allowed to drift from areas of application.

Picloram is known to leach through soil into groundwater under certain conditions as a result of agricultural use. 2,4-D has properties and characteristics associated with chemicals detected in groundwater. Use of these chemicals in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

The following information is for the active ingredient Picloram:

Rainbow Trout (LC₅₀): 51 mg/L

Daphnia (LC₅₀): 34.4 mg/L

Algae (EC₅₀): 36.9 mg/L

The following information is for the active ingredient, 2,4-D TIPA:

Rainbow Trout (LC₅₀): 100 mg/L

Daphnia (LC₅₀): 235 mg/L

Algae (EC₅₀): 33.2 mg/L

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, 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: Nonrefillable container, do not reuse or refill this container. Refer to product label for specific container disposal instructions.



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14. TRANSPORT INFORMATION

UN Number:	UN1993
Proper Shipping Name:	Flammable Liquid, N.O.S. (contains isopropanol)
Transport Hazard Class:	3
Packing Group:	III
Hazard Zone:	A
Marine Pollutant:	Yes (2,4-D) ¹
Hazardous Substance RQ:	100 lbs. (100 gal. of product) if shipped in container \geq 450 L (119 Gallons)
Labels / Placards:	US-DOT: Class 3 Flammable Liquid ² IMDG, IATA: Class 3 Flammable Liquid
Emergency Guide:	128 (NAERG – North American Emergency Response Guide)
¹ Marine Pollutant Note:	Ground-only shipments are excluded from Marine Pollutant labeling requirements as per 49CFR§172.101 Appendix B(4). For any shipments involving all or part of the transport by vessel, the shipment must be classified as a Marine Pollutant unless a limited quantity exemption applies (see note 3 below).
² US-DOT Note:	Not regulated for ground only shipments in single or inner packaging \leq 1.3 gal. (5L).

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes or clothing. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to some plants at very low concentrations. Non-target plants may be adversely affected if pesticide is allowed to drift from areas of application.

This pesticide may be toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to inter tidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

2,4-D has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.



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Picloram is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, picloram may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetative filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate, Delayed, Fire

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

Picloram (CAS #1918-02-1): 3.0%

Isopropyl Alcohol (CAS #67-63-0): 7.8%

Ethylene Glycol (CAS #107-21-1): 15.4%

CERCLA –

Ethylene Glycol (CAS #107-21-1): 5,000 lbs.

15. REGULATORY INFORMATION (CONT.)

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the state of California to cause cancer or reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.



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16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Control Solutions, Inc. nor Seller be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

SDS Version: 1.0 Effective Date: 02/11/2019