SECTION 1: Product and Company Identification

1.1. Product identifier

Trade name : Sightline
Product code : EPA Reg. No. 74779-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Herbicide

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Rainbow Treecare Scientific Advancements
11571 K-Tel Drive
Minnetonka, MN 55343
Phone: 1-(877) 272-6747 (toll free)
www.treecarescience.com

1.4. Emergency telephone number

Emergency number : (800)-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

Hazard Identification Summary

Light yellow clear liquid

GHS Labeling Elements

Hazard pictograms (CLP) :

Signal word : WARNING

HEALTH HAZARDS : Moderate eye irritant. Potential skin sensitizer from exposure to concentrate.

PHYSICAL HAZARDS : May release toxic fumes if burned.

ENVIRONMENTAL HAZARDS : Triclopyr is highly toxic to certain terrestrial plant and aquatic organisms in its ester form.

SECTION 3: Composition/information on ingredients

Component	Percentage	CAS Number
Triclopyr Butoxy Ethyl Ester	61.6	64700-56-7
Petroleum distillates*	> 25.0	64742-94-5
Naphthalene (*contained)	2 – 5	91-20-3

SECTION 4: First aid measures

4.1. Description of first aid measures

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

IF SWALLOWED : Call a poison control center or doctor immediately for treatment advice. 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. Do not give liquid to the person.

IF IN 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 further treatment advice.

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

IF INHALED : 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 : May cause chemical pneumonitis if aspirated. If lavage is performed, suggest endotracheal and/or esophagoscopic control.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5: Firefighting measures

National Fire Protection Rating (NFPA)

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0
4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal	

FLASHPOINT: 142°F (61°C)

5.1. Extinguishing media

EXTINGUISHING MEDIA : Use foam, dry chemical, carbon dioxide, or water spray when fires involve this material

5.2. Special hazards arising from the substance or mixture

FIRE AND EXPLOSION HAZARD : May decompose in fire due to thermal decomposition, releasing toxic gases.

5.3. Advice for firefighters

FIRE FIGHTING INSTRUCTIONS : Evacuate area and fight fire upwind from a safe distance to avoid possible hazardous fumes and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Minimize use of water to prevent environmental contamination. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

FIRE FIGHTING EQUIPMENT : Self-contained breathing apparatus with full facepiece and protective clothing.

SECTION 6: Accidental release measures

IN CASE OF SPILLS OR LEAKS : Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL : Absorb small spills on sand, vermiculite, or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL : Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Minimize use of water to prevent environmental contamination.

SECTION 7: Handling and storage

KEEP OUT OF REACH OF CHILDREN!

Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate.

7.1. Precautions for safe handling

HANDLING : Use only in a well-ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

STORAGE : Store above 28°F or agitate before use. Store in original container with lid tightly closed. Keep away from food, feed and drinking water. Combustible liquid, store in a well-ventilated, dry place away from heat and other sources of ignition.

SECTION 8: Exposure controls/personal protection

EXPOSURE LIMITS (8 hour TWA, ppm):

COMPONENT	OSHA PEL	ACIGH TLV
Triclopyr BEE ester	Not listed	Not listed
Naphthalene	10 ppm	10 ppm

ENGINEERING CONTROLS : Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment

EYE PROTECTION	: Safety goggles, face shield or full face respirator if vapors cause eye discomfort.
CLOTHING	: Long-sleeved shirt and long pants. Shoes plus socks.
GLOVES	: Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC) or Viton.
RESPIRATOR	: When handling in enclosed areas use a respirator approved for pesticides.

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:
Wash hands before eating, drinking or chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: Light yellow clear liquid
Odor	: Paint like odor
pH	: 3.65 – 4.65
Melting point	: Not applicable
Boiling point	: No data
Flash point	: 59°C
Evaporation rate	: No data
Flammability	: No data
Flammability limits	: No data
Vapor pressure	: 0.2 mPa (25°C) (Triclopyr)
Vapor density	: Not applicable
Density	: 1.15 – 1.21 g/ml (9.60 – 10.10 lb/gl)*
Solubility	: Emulsifies
Partition coefficient	: Log P_{ow} = 0.42 (pH5), -0.45 (pH7), -0.96 (pH9), (Triclopyr)
Auto-ignition temperature	: No data
Decomposition temperature	: No data
Viscosity	: 14.49 cSt (20°C); 6.7 cSt (40°C)

*Listed density is an approximate value and does not necessarily represent that of a specific batch.

SECTION 10: Stability and reactivity

10.1. Reactivity

PRODUCT REACTIVITY: None known

10.2. Chemical stability

CHEMICAL STABILITY: Stable, however may decompose if heated.

10.3. Possibility of hazardous reactions

Product will not undergo polymerization.

10.4. Conditions to avoid

CONDITIONS TO AVOID: Avoid temperatures above 105°F (40°C) and below 30°F (6°C).

10.5. Incompatible materials

INCOMPATIBLE MATERIALS: Strong acids and oxidizing materials.

10.6. Hazardous decomposition products

May decompose to hydrogen chloride, oxides of nitrogen and phosgene when burning.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity values are from a similar but not identical formulation.

ACUTE TOXICITY

Oral LD_{50} (rat)	: >1,000 mg/Kg
Dermal LD_{50} (rat)	: >2,000 mg/Kg
Inhalation LC_{50} (rat)	: >4.0 mg/L
Eye Irritation (rabbit)	: Slight irritant
Skin Irritation (rabbit)	: Moderate irritant
Sensitization (guinea pig)	: Potential sensitizer from prolonged or repeated exposure.

CARCINOGEN STATUS

OSHA	: Not listed
NTP	: Not listed
IARC	: Not listed

TERATOGENICITY : Evidence of reproductive and developmental toxicity only at maternally toxic doses.

MUTAGENICITY : Little evidence of mutagenic effects during in vivo or in vitro studies.

SECTION 12: Ecological information

12.1. Toxicity

ENVIRONMENTAL SUMMARY: This pesticide is toxic to fish. 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 or rinsate.

This chemical 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.

FATE: Triclopyr BEE ester rapidly hydrolyzes to the parent acid. Triclopyr acid is slightly persistent with a soil half-life of 2 to 6 weeks depending on soil type and weather conditions. Triclopyr acid is water soluble and mobile in soil.

FISH TOXICITY (BEE ester formulation)

96 hour LC_{50}, Rainbow trout	: 1.3 ppm
96 hour LC_{50}, Bluegill	: 1.5 ppm

AVIAN TOXICITY (BEE ester formulation)

Dietary LC_{50}, Bobwhite quail	: >9,000 ppm
Dietary LC_{50}, Mallard duck	: >10,000 ppm

BEE TOXICITY (BEE ester formulation)

Triclopyr acid -	: >100 ug/bee

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not contaminate water, food or feed by storage or disposal.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable federal, state, or local procedures.

Container Disposal: Non-refillable containers (1, 2.5, 30 & 55 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

Refer to the product label for additional and complete Container Handling instructions.

SECTION 14: Transport information

SHIPPING DESCRIPTION:
(Ground transport)

Containers ≤ 119 gallons : Not regulated by DOT

Containers > 119 gallons : NA1993, Combustable Liquid, N.O.S., (contains petroleum distillates), PG III

DOT HAZARD CLASS : Combustable Liquid (>119 gallons)
IDENTIFICATION NUMBER : NA1993
DOT PACKING GROUP : PG III

SECTION 15: Regulatory information

CERCLA REPORTABLE QUANTITY : Not listed

SARA TITLE III STATUS
311/312 Hazard Categories : Immediate & Delayed Health Hazard, Fire Hazard
313 Toxic Chemicals : None known

CALIFORNIA PROP 65 : Not listed

TSCA : This product is exempted from TSCA because it is solely for FIFRA regulated use.

SECTION 16: Other information

HMIS HAZARD RATINGS	HEALTH	2
	FLAMMABILITY	2
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

MSDS US

***Disclaimer**: The information provided by Rainbow Treecare Scientific Advancements. contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.*

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