



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

UPL South Africa (Pty) Ltd
Co. Reg. No.: 2009/019713/07
7 Sunbury Office Park, off Douglas Saunders Drive
La Lucia Ridge, 4019

Tel: 031 514 5600
Fax: 031 514 5611
e-mail: msds@upl-ltd.com
Web address: www.upl-ltd.com/za

Product Name: Triclon
Product Use: Herbicide
Creation Date: August 2020
Revision Date: July 2023

24 Hr Emergency Number:

In case of Poisoning:

Griffon Poison Information Centre: 082 4468946

Poisons Information Helpline: 0861 555 777

In case of Spillage:

Spill Tech: 086 100 0366 / 083 253 6618

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: Triclopyr butotyl
Chemical Name: Triclopyr ((3,5,6-trichloro-2-pyridinyl) oxy) acetic acid, butoxy ethyl ester
Chemical family: Pyridinecarboxylic acid
CAS. No.: 64700-56-7
Chemical formula: C₁₃H₁₆Cl₃NO₄
Molecular weight: 356.6
Use: A systemic emulsifiable concentrate herbicide for the control of woody plants and weeds as indicated for forestry, grass pastures and industrial areas.

Hazardous ingredients of toxicological concern:

Inert:	CAS No.	% present:
Triclopyr	64700-56-7	> 10 % v/v
Solvent	64742-47-8	± 30 % v/v

Symbol: F, Xn, N
Indication of Danger: Flammable, Harmful, Environmentally Hazardous Substance

RISK-PHRASE(S) R22, R36, R37, R48/22, R50/53

SECTION 3 - HAZARD IDENTIFICATION

Skin contact: Irritating to skin. May cause sensitization by skin contact.
Ingestion: Harmful if swallowed.
Harmful to aquatic organisms.

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

Inhalation: Remove to fresh air if effects occur. Consult a physician.
Skin contact: Wash off in flowing water or shower
Eye contact: Flush eyes with plenty of water.
Ingestion: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. The decision of whether to induce vomiting or not should be made by an attending physician.

MATERIAL SAFETY DATA SHEET

Issued by: UPL South Africa (Pty) Ltd
Griffon poison information centre: 082 4468946

Phone: 031 514 5600
Poisons information helpline: 0861 555 777

Spilltech: 0861 000 366 / 083 253 6618



MATERIAL SAFETY DATA SHEET

NOTE TO PHYSICIAN:

If lavage is performed, endotracheal and/or oesophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5 - FIRE-FIGHTING MEASURES

Flash point: 60 °C (TCC)
Fire & Explosion Hazards: Flammable. Toxic, irritating vapors may be produced if product is involved in fire.
Hazardous Combustion Products; Nitrogen oxides. Hydrogen chloride. Phosgene. Dependent on the intensity of the fire.
Extinguishing Media: Water fog, foam, CO₂, and dry chemical.
Fire Fighting Protective Equipment: Use positive pressure self-contained breathing apparatus and full protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Environmental Precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods of cleaning up

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

HANDLING:

Keep out of reach of children. Do not use near heat or open flame. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin and clothing. Avoid breathing mists and vapors. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. For handling relative to end-use of this product, read the product label for further information concerning the use of personal protective equipment (PPE) under the Worker Protection Standard of 1993.8.

STORAGE:

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Comply with occupational safety, environmental, fire, and other applicable regulations.

Exposure Guidelines:

3,5,6-Trichloro-2- pyridinyloxyacetic acid, Butoxyethylester:

Guideline is 2 mg/m³ as acid equivalent, Skin.

Kerosene:

Guideline is 10 mg/m³.

Engineering Controls:

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

PERSONAL PROTECTIVE EQUIPMENT:

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

Skin Protection:

For handling prior to end-use of this product, no precautions other than clean, body-covering clothing should be needed for brief contact. Use gloves impervious to this material when prolonged or frequently repeated contact could occur. For handling relative to end-use of this product, the Worker Protection Standard of 1993 requires that applicators and other handlers must wear long-sleeved shirt and long pants; chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton; and shoes and socks. Remove clothing immediately if herbicide gets inside. Then wash thoroughly and put on clean clothing. Follow manufacturer's instructions for

MATERIAL SAFETY DATA SHEET

Issued by: UPL South Africa (Pty) Ltd

Griffon poison information centre: 082 4468946

Phone: 031 514 5600

Poisons information helpline: 0861 555 777

Spilltech: 0861 000 366 / 083 253 6618



MATERIAL SAFETY DATA SHEET

cleaning/maintaining personal protective equipment (PPE). If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Eye Protection:

Use safety glasses.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear – brown
Odour:	Kerosene-like
Vapour density:	> 1
Appearance:	liquid
Density:	1.08 g/l
Flash point:	64°C
Solubility in water:	Emulsifies in water:
Boiling Point:	150°C
Flammability:	Flammable

SECTION 10 - STABILITY AND REACTIVITY

Conditions to Avoid:	Avoid sources of ignition if temperature is near or above flash point.
Incompatibility:	(Specific Materials To Avoid) Acid, base, and oxidizing material.
Hazardous Decomposition Products:	Nitrogen oxides, hydrogen chloride, and Phosgene May Result Under Fire Conditions.
Hazardous Polymerization:	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Ingestion:

Single dose oral toxicity is considered to be moderate. The oral LD50 for rats is 1100 mg/kg.

Skin Contact

The dermal LD50 for rats is >2000mg/kg. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Short single exposure may cause skin irritation.

Skin Sensitisation

Known or suspected skin sensitiser.

Eye Contact:

May cause slight eye irritation.

Inhalation:

No adverse effects anticipated by this route of exposure incidental to proper handling.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Fish:

Acute LC50 for fathead minnow (*Pimephales promelas*) is 2.2 - 6.3 mg/L.

Material is moderately toxic to fish on an acute basis (LC50 between 1 and 10 mg/L).

Daphnia:

Acute LC50 for water flea (*Daphnia magna*) is 2.2 mg/L.

Material is moderately toxic to aquatic invertebrates on an acute basis (LC50 between 1 and 10 mg/L).

Algae:

Growth inhibition EC50 for green alga (*Selenastrum capricornutum*) is 13.3 mg/L based on cell count, 16.8 mg/L based on cell vol.

Environmental Fate:

Movement & Partitioning:

Bio concentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Log octanol/water partition coefficient (log Pow) is 4.09. Log air/water partition coefficient (log Kaw) is -4.0.

Degradation & Persistence:

Biodegradation under aerobic static laboratory conditions is moderate (BOD20 or BOD28/ThOD between 10 and 40%).

MATERIAL SAFETY DATA SHEET

Issued by: UPL South Africa (Pty) Ltd

Griffon poison information centre: 082 4468946

Phone: 031 514 5600

Poisons information helpline: 0861 555 777

Spilltech: 0861 000 366 / 083 253 6618



MATERIAL SAFETY DATA SHEET

SECTION 13 - DISPOSAL CONSIDERATION

Very toxic to aquatic organisms. Do not contaminate rivers, dams or any other water source with chemical or used containers. Drain and TRIPLE RINSE containers and then destroy by perforation and flattening. Do not re-use containers for any other purpose.

SECTION 14 - TRANSPORT INFORMATION

UN No.: 1993
ADR Road
 Shipping name: Flammable liquid, n.o.s (Triclopyr butoxyethyl ester)
 Class: 3
 Packaging group: III
Air (IATA)
 Shipping name: Flammable liquid, n.o.s (Triclopyr butoxyethyl ester)
 Class: 3
 Packing Group: III
Sea - IMO/IMDG
 Shipping name: Flammable liquid, n.o.s (Triclopyr butoxyethyl ester)
 Packing Group: III
Tremcard No.: 30GM6-III
This product is considered a Marine Pollutant.

SECTION 15 - REGULATORY INFORMATION

Hazard Symbol: F, Xn, N
Indication of Danger: Flammable, Harmful, Dangerous for the Environment
Risk Phrases:
R22 Harmful if swallowed
R38 Irritating to skin
R43 May cause sensitisation by skin contact
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65 Harmful: may cause lung damage if swallowed
Safety Phrases :
S24 Avoid contact with skin
S35 This material and its container must be disposed of in a safe way
S37 Wear suitable gloves
S57 Use appropriate containment to avoid environmental contamination
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

SECTION 16 - OTHER INFORMATION

Packaging:

Packaged in 500 ml; 100 ml; 5; 10; 20 and 25ℓ plastic containers and labelled according to the South African regulations and guidelines.

Disclaimer:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

MATERIAL SAFETY DATA SHEET

Issued by: UPL South Africa (Pty) Ltd

Griffon poison information centre: 082 4468946

Spilltech: 0861 000 366 / 083 253 6618

Phone: 031 514 5600

Poisons information helpline: 0861 555 777