



Issue Date: August 1, 2018

MATERIAL SAFETY DATA SHEET OF  
**TERAGRO TRICLOPYR 480 HERBICIDE**  
*(present as butoxy ethyl ester)*

**I. IDENTIFICATION OF THE SUBSTANCE / PREPARATION**

Common name	Triclopyr Butoxy Ethyl Ester
Chemical name	<i>3,5,6-trichloro-2-pyridinyl - oxy - acetic acid, butoxy ethyl ester.</i>
Empirical formula	C <sub>13</sub> H <sub>16</sub> Cl <sub>3</sub> NO <sub>4</sub>
Intended use	Herbicide
Pesticide family	Pyridine
Manufactured By	TeraGro Inc. PO Box 192 Ladysmith, BC V9G 1A2 Tel: 250-924-8080 (24 hrs) Email: <a href="mailto:office@teragro.com">office@teragro.com</a> Website: <a href="http://www.teragro.com">www.teragro.com</a>
24 hour Emergency No.	In the event of an emergency involving dangerous goods, call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone.
CAS No.	064700-56-7
Molecular weight	356.6

**II. COMPOSITION / INGREDIENTS**

Triclopyr butoxy ethyl ester	:	61.6 %
Other non hazardous ingredients	:	38.4 %
<b>Total</b>	:	<b>100.00 %</b>

**III. HAZARDS IDENTIFICATION**

Symptoms of Poisoning	The early symptoms may be combinations of headache, giddiness, nausea, vomiting and convulsions, if swallowed
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**IV. FIRST AID**

First Aid	If skin is contaminated, wash with soap and plenty of water. If eyes are contaminated, flush well with clean water.
Antidote	Gastric lavage if swallowed. Supportive and symptomatic treatment.



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## V. FIRE AND EXPLOSION DATA

Flash point	Above 24.5°C
Extinguishing media	Extinguish fire with powder chemicals CO <sub>2</sub> or alcohol resistant foam. Do not use water jet.
Specific fire fighting media	As above.

## VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipments.
Method of Cleaning Up	Do not touch spilled material. Stop leak if you can do it without risk. For small spills, take up with sand or other absorbant material and place into containers for later disposal. Move containers from spill area. For larger spills, dike far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed space.
Environmental Precautions	Prevent contamination of water.

## VII. HANDLING AND STORAGE

Handling Precautions	Keep product in original tightly closed container. Avoid exposure by inhalation. Do not eat, drink or smoke when handling. Wash hands before eating, drinking or smoking.
Storage	Keep in a cool dry place in original packing. Store under lock and key. Keep out of reach of children. Do not store near foodstuff, poultry and domestic animals. Do not load with foodstuff while transportation. Check that containers are sound and labels undamaged before dispatch.

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection	Wear splash proof or dust resistant safety goggles and face shield.
Hand Protection	Rubber impermeable gloves.
Respiration	Wear an air respirator or self contained breathing apparatus.
Clothing	Impervious clothes so as to avoid skin contact.



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## IX. PHYSICAL & CHEMICAL PROPERTIES

Physical state	Clear liquid
Colour	Yellow
Odour	Pungent
Acidity (As H <sub>2</sub> SO <sub>4</sub> ) % by mass	0.50% max.
Solubility	Emulsifiable
Stability	Stable at room temperature for 2 years.
Compatibility	Compatible with non-alkaline pesticides.

## X. STABILITY AND REACTIVITY

Stability	Stable for 2 years under optimum condition of storage.
Incompatibility with other material	Incompatible with alkaline pesticides.

## XI. TOXICOLOGICAL INFORMATION (a.i.)

Acute Oral LD <sub>50</sub>	Mice : 750 mg/kg bw Rat : 1300 mg/kg bw
Acute Dermal LD <sub>50</sub>	Rat : >2000 mg/kg b.w. Rabbit : >2000 mg/kg b.w.
Acute Inhalation LC <sub>50</sub>	Rat : >4.8 mg/lit. air
Skin Irritation	Rabbit : Non irritating
Eye Irritation	Rabbit : Minimally irritating
Dermal Sensitization	Guinea Pigs : Sensitizer

## XII. ECOLOGICAL INFORMATION (a.i.)

Bees	Non toxic to bees
Birds	Northern Bobwhite Quail LD <sub>50</sub> Oral: 735 mg/kg Mallard Duck LC <sub>50</sub> : >10000 ppm
Fresh Water	<i>Daphnia magna</i> LC <sub>50</sub> : 12 ppm
Invertebrates	
Fishes	Rainbow trout LC <sub>50</sub> : 0.65 ppm Bluegill Sunfish LC <sub>50</sub> : 0.36 ppm
Estuarine and Marine Organisms	Eastern Oyster LC <sub>50</sub> : 0.23 ppm Grass shrimp LC <sub>50</sub> : 1.7 ppm Tidewater silverside LC <sub>50</sub> : 0.45 ppm



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### **XIII. DISPOSAL PROCEDURES**

Used packages, surplus materials and washings of insecticides and containers shall be disposed off in a safe manner so as to prevent environmental or water pollution. The used packages shall not be left outside to prevent their re-use. Packages shall be broken and buried away from habitation.

### **XIV. TRANSPORT INFORMATION**

UN No.	3082
Class	9
Packing Group	III
IMDG PG.	-
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S (Triclopyr Butoxyethyl ester). Marine pollutant.

### **XV. REGULATORY INFORMATION**

Pest Control Products	33049
Act Registration No.	
Hazard Symbol	The harmful symbol (Xn).
Risk Phrases	R36/38, R43, R50/53, R54
Safety Phrases	S2, S13, S26, S62, S28, S24/25, S36/37/39, S20/21, S29

### **XVI. OTHER INFORMATION**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall **TeraGro Inc.** be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **TeraGro Inc.** has been advised of the possibility of such damages.*

For, **TeraGro Inc.**