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# STARPLEX 83 CC

## Material Safety Data Sheet

Revised on: 1 January 2017

Revision number 3

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### 1. Substance/preparation and company identification

#### ULTRAWEED BUSH & TREE KILLER

Use: Domestic, Agriculture, Herbicide

Company:

Starplex 83 CC  
Reg. No. 2004/01564/23  
P.O. Box 14374  
BREDELL 1623  
SOUTH AFRICA  
TEL: (011) 979-4246/7

Emergency contact numbers

Tygerberg Poison Center: +2721 931 6129  
Griffon Poison Information Centre - 082 446 8946

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### 2. Hazard identification

Danger! Combustible liquid and vapour. May cause allergic skin reaction. May cause eye irritation. May cause skin irritation. Harmful or fatal if swallowed; can enter lungs and cause damage. Isolate area. Toxic fumes may be released in fire situations. Highly toxic to fish and/or other aquatic organisms.

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### 3. Composition/information on ingredients

Component	CAS#
Triclopyr-2-butoxyl ester	64700-56-7

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### 4. First-aid measures

**Description of first aid measures**

**General advice:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control centre or doctor for treatment advice.

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**Skin Contact:** Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly. Suitable emergency safety shower facility should be available in work area.

**Eye Contact:** Hold eyes 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 eyes. Call a poison control centre or doctor for treatment advice.

**Ingestion:** Immediately call a poison control centre or doctor. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. Remove by gastric lavage and catharsis, maintain blood pressure and airway. Give oxygen if respiration is depressed.

**Most important symptoms and effects, both acute and delayed**

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

**Indication of immediate medical attention and special treatment needed**

The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control centre or doctor, or going for treatment. Skin contact may aggravate pre-existing dermatitis.

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## 5. Fire-fighting measures

Suitable extinguishing media:

Dry, chemical, halon, water spray, water fog, carbon dioxide, foam

Specific hazards:

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder).

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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## 7. Handling and storage

### Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

The product is combustible. Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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## 8. Exposure controls and personal protection

### Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed. Wear respiratory protection if ventilation is inadequate. Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

Hand protection:

Suitable chemical resistant safety gloves, E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other.

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Eye protection:  
Tightly fitting safety goggles (splash goggles)

Body protection:  
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit.

General safety and hygiene measures:  
Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

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## 9. Physical and chemical properties

Form:	Odourless liquid
pH:	6.4
Flash point:	65 °C
Solubility in water:	Soluble in water
Specific gravity:	1.08 (23 °C)
Partition coefficient, n-octanol/water (log Pow) :	4.09

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## 10. Stability and reactivity

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Thermally stable at typical use temperatures.

### Possibility of hazardous reactions

Polymerization will not occur.

**Conditions to Avoid:** Active ingredient decomposes at elevated temperatures.

Generation of gas during decomposition can cause pressure in closed systems.

**Incompatible Materials:** Avoid contact with: Acids. Bases. Oxidizers.

### Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide. Hydrogen chloride. Nitrogen oxides. Phosgene. Toxic gases are released during decomposition.

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## 11. Toxicological information (active ingredient)

LD <sub>50</sub> /oral/rat/male/female:	1138 mg/kg
LC <sub>50</sub> /by inhalation/rat/male/female:	>5.2 mg/l / 4 h
LD <sub>50</sub> /dermal/rat/male/female:	>2000 mg/kg
Skin irritant:	Not a skin irritant.
Sensitization/guinea pig:	Mild skin sensitizer.

### Eye damage/eye irritation

May cause pain disproportionate to the level of irritation to eye tissues. May cause slight eye irritation. Corneal injury is unlikely.

### Skin corrosion/irritation

Brief contact may cause moderate skin irritation with local redness. Repeated contact may cause severe skin irritation with local redness and discomfort. May cause drying and flaking of the skin.

### Sensitization

#### Skin

Has caused allergic skin reactions when tested in guinea pigs. With the dilute mix, no allergic skin reaction is expected.

#### Respiratory

No relevant information found.

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## 12. Ecological information

### Ecotoxicity

Toxicity to fish:

Rainbow trout/LC<sub>50</sub> (96 h): 0.984 mg/l

Aquatic invertebrates:

Daphnia magna/LC<sub>50</sub> (48 h): 0.35 mg/l

Toxicity to Soil Dwelling Organisms

LC<sub>50</sub>, Earthworm *Eisenia foetida*, adult, 14 d: 2,552 mg/kg

### Persistence and degradability

Biodegradation under aerobic static laboratory conditions is high (BOD<sub>20</sub> or BOD<sub>28</sub>/ThOD > 40%).

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**Bioaccumulative potential**

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

**Partition coefficient, n-octanol/water (log Pow):**

4.09 Measured

**Bioconcentration Factor (BCF):**

Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). 505

**Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment.

**13. Disposal considerations**

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill. Do not discharge into drains or sewers.

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**14. Transport information****IMDG:****Proper Shipping Name:**

ENVIRONMENTALLY HAZARDOUS  
SUBSTANCES, LIQUID, N.O.S

**Technical Name:**

Contains Triclopyr-2-butoxyethyl Ester,  
KEROSENE

**Hazard Class:**

9

**UN number:**

3082

**Packaging Group:**

PG III

**EMS number:**

f-a,s-f

**Marine Pollutant:**

Yes

**ICAO/IATA:**

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<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S
<b>Technical Name:</b>	Contains Triclopyr-2-butoxyethyl Ester, KEROSENE
<b>Hazard Class:</b>	9
<b>UN number:</b>	3082
<b>Packaging Group:</b>	PG III
<b>Cargo Packing instructions:</b>	964
<b>Passenger packing instructions:</b>	-

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## 15. Regulatory information

### Regulations of the European union (Labelling) / National legislation/Regulations

WHO classification III

R-phrase(s)

R 22, 36/38, 51

S-phrase(s)

S 2, 3, 13, 24/25, 37

## 16. Other information

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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