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## MATERIAL SAFETY DATA SHEET

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### BIOSORB 600 HERBICIDE

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#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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<b>Product Name</b>	BIOSORB 600 HERBICIDE
<b>Product Type</b>	Group I Herbicide
<b>Company Name</b>	<b>BIOTIS LIFE SCIENCE PTY LTD</b>
<b>Address</b>	11 Norfolk Way, North Ryde, NSW 2113, Australia.
<b>Telephone Number</b>	02 9889 1995
<b>Fax Number</b>	02 9889 1998
<b>Recommended Use</b>	For the control of a range of woody weeds and melons as specified in the directions for use table.

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#### 2. HAZARDS IDENTIFICATION

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<b>Hazard Classification</b>	Classified as hazardous according to the criteria of NOHSC Australia. Not classified as Dangerous Goods according to the ADG code.
<b>Risk Phrase(s)</b>	R22 Harmful if swallowed R36/38 Irritating to eyes and skin R43 May cause sensitization by skin contact
<b>Safety Phrase(s)</b>	S13 Keep away from food, drink and animal feeding stuffs S2 Keep out of reach of children S24/25 Avoid contact with skin and eyes S46 If swallowed, seek medical advice immediately and show this container or label

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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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<u>Ingredient</u>	<u>CAS Number</u>	<u>Proportion</u>
Triclopyr (present as butoxtethyl ester)	64700-56-7	600 g/L*
Other ingredients	-	Balance

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\*This concentration is for the active ingredient triclopyr

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#### 4. FIRST AID MEASURES

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##### **Inhalation**

Remove affected person to fresh air until recovered.

##### **Skin Contact**

Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.

##### **Eye Contact**

If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

Seek medical advice immediately.

##### **Ingestion**

If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre (Phone number: 13 112). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

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## 5. FIRE FIGHTING MEASURES

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### **Suitable Extinguishing Media**

Water fog or fine spray, CO<sub>2</sub>, dry chemical and soft water spray or foam.

### **Hazardous from Combustion Products**

If involved in a fire, it will emit oxides of carbon, oxide of nitrogen, hydrogen chloride and possibly phosgene.

### **Special Protective Equipment for Fire Fighters**

Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

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## 6. ACCIDENTAL RELEASE MEASURES

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### **Spills and Disposal**

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).

Collect spilled material and waste in sealable open-top type containers for disposal.

Do not use water for cleanup.

### **Environmental Precautions**

Prevent from entering drains, waterways or sewers.

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## 7. HANDLING AND STORAGE

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### **Handling**

For personal protective equipment (PPE) and hygiene advice, refer Section 8.

### **Storage and Transport**

Store in the closed original container in a cool, well-ventilated area out of direct sunlight.

Keep container tightly sealed and do not store with seed, fertilizers or foodstuffs.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### **National Exposure Standards**

No exposure standard has been established for this product.

### **Engineering Controls**

Well ventilated

### **Personal Protective Equipment**

When preparing product for use, wear elbow-length PVC gloves and face shield or goggles.

When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear.

### **Hygiene Measures**

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Light brown liquid
<b>Odor</b>	Aromatic odour
<b>Physical state</b>	Liquid
<b>Melting point</b>	Liquid at normal temperature
<b>Solubility in water</b>	Emulsifiable
<b>Specific gravity</b>	1.20 ± 0.01

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## 10. STABILITY AND REACTIVITY

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<b>Stability</b>	Stable for at least 2 years under normal conditions of warehouse storage.
<b>Incompatible Material</b>	Specific materials to avoid ó Strong, oxidising agents
<b>Hazardous Decompositions Products</b>	Carbon dioxide and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and under some circumstances, oxides of nitrogen. Oxides of sulfur. Hydrogen fluoride gas and fluorides.
<b>Hazardous Polymerization</b>	Not known to occur

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## 11. TOXICOLOGICAL INFORMATION

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### Potential Health Effects:

No harmful effects are expected if the precautions on the label and this MSDS are followed.

### Inhalation

High vapor concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract.

### Ingestion

Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and in coordination.

### Skin

May irritate the skin.

May cause sensitization by prolonged skin contact.

### Eye

Will irritate the eyes.

### Chronic Effects

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

### Reproductive Toxicity

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

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### Carcinogenicity

Triclopyr has been assessed in animals and some data exists shown that triclopyr is a substance which causes some concern for humans owing to possible carcinogenic effects from long term exposure, but in respect of which the available information is not adequate for making a satisfactory assessment.

**Acute Toxicity-Oral** : LD<sub>50</sub> (rat) : 577 mg/kg @ female ; 692 mg/kg @ male

**Acute Toxicity-Dermal** : LD<sub>50</sub> (rat) : > 2000 mg/kg

**Acute Toxicity-Inhalation** : LC<sub>50</sub> Inhalation : > 256 ppm (4 hours)

### Eye Irritation

The product is an eye irritant

### Skin Irritation

The product is slight irritant

### Skin Sensitisation

Product is not a skin sensitizer

### Other Information

The Australian Acceptable Daily Intake (ADI) for triclopyr for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 mg/kg/day, the level determined to show no effects during long-term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Comm. Dept. of Health and Ageing, -ADI Listø TGA, June 2006)

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## 12. ECOLOGICAL INFORMATION

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### Persistence/Biodegradability

Triclopyr butoxyethyl ester is rapidly hydrolysed to triclopyr acid in soil and water. Triclopyr acid is degraded by microbial action and photodecomposition.

Breakdown in soil: Half life about 40 days in soil.

Breakdown in water: Decomposes rapidly in water with a half life 1-2 days.

### Environment Protection

Do not contaminate dams, waterways or sewers with this product.

**Acute Toxicity-Fish** LC<sub>50</sub> (96 h) Rainbow trout: 117 mg/L  
LC<sub>50</sub> (96 h) Bluegill Sunfish: 148 mg/L

**Acute Toxicity-Daphnia** EC<sub>50</sub> (48 h) Daphnia : 133 mg/L

**Acute Toxicity-Bird** LD<sub>50</sub> Mallard duck: 1698 mg/kg

**Acute Toxicity-Bees** Not toxic to bees  
LD<sub>50</sub> Bees: >100 µg/bee

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## 13. DISPOSAL CONSIDERATIONS

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### Product Disposal

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals.



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### Container Disposal

Do not use this container for any other purpose. Triple rinse containers; add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for the refill or storage. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree root.

Empty containers and product should not be burnt.

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## 14. TRANSPORT INFORMATION

Considered non-dangerous for transport by the Australian Code for the Transport of Dangerous Goods by road and rail.

UN Number (Sea Transport) 3082

IMO Class/Packing Group 9

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S  
(contains Triclopyr)

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## 15. REGULATORY INFORMATION

Poisons Schedule S6

Packaging and Labelling POISON  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

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## 16. OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this information in the specific context of the intended application. BIOTIS LIFE SCIENCE PTY LTD. will not be responsible for damages of any nature resulting from use of or reliance upon this information.