

**MATERIAL SAFETY DATA SHEET**

19/6/03

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**SUPPLIER:** DOW AGROSCIENCES (PTY) LTD  
Private Bag X55,  
Bryanston.  
2021

**EMERGENCY TELEPHONE NUMBERS****SPILLAGES:**

**Emergency telephone** (+27) 032 5330716 or  
082 887 8079  
**Fax** (+27) 032 5336134

**POISONINGS:**

**National Poison Centre** 021-9386084 (office hours).  
021-9316129 (after hours).  
0800 333 444 (24 H)

**UOFS Pharmacology/Toxicology information centre:**  
0824910160

Product Name: **TEBUSAN 500SC HERBICIDE**

LV70: 69011

Issue Date: Aug. 01

Ref: FF511

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**2. COMPOSITION/INFORMATION ON INGREDIENTS****Components contributing to hazard:**

			CAS	EINECS
Tebuthiuron	500 g/L	Xn,N; R22- 50/53	034014-18-1	251-793-7
Inert ingredients	Balance			

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**3. HAZARDS IDENTIFICATION**

Harmful if swallowed. Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

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**4. FIRST-AID MEASURES**

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

**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.

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**Eye Contact**

Irrigate immediately with water for at least 5 minutes.

**Skin Contact**

Wash thoroughly with soap and water.

**Inhalation**

Remove to fresh air. Consult a physician if irritation develops.

**Note to Physician**

No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

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**5. FIRE-FIGHTING MEASURES****Extinguishing Media**

Water fog or fine spray. Carbon dioxide. Dry chemical. Foam.

**Hazardous Combustion Products**

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

**Protection of Firefighters**

Wear protective clothing and use self-contained breathing apparatus.

**Additional Information**

Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

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**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Wear appropriate safety clothing and eye/face protection (see Section 8).

**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**

Spills should be contained by, and covered with large quantities of sand, earth or any other readily available absorbent material which is then brushed in vigorously to assist absorption. The mixture can then be collected into drums and removed for disposal.

For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

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**7. HANDLING AND STORAGE****Handling**

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.

**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.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

None established.

**Engineering Controls**

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

**Respiratory Protection**

For most conditions, no respiratory protection should be needed; however, in misty atmospheres, use an approved mist respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

**Hand/Skin Protection**

No precautions other than clean body-covering clothing should be needed. Wear chemical resistant gloves. For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

**Eye/Face Protection**

Safety glasses should be sufficient for most operations, however, for misty operations wear chemical goggles.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: white to off-white
Odour	: pungent
Explosive properties	: none
Oxidising properties	: none
Viscosity	: 2000-3000 cps
Flammability	: not flammable
Density	: 1.134 g/cm <sup>3</sup>
pH typical range	: 6-8

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**10. STABILITY AND REACTIVITY****Chemical Stability**

Is stable under normal storage conditions.

**Conditions to Avoid**

Avoid extremes of temperature. Will decompose at temperatures above 160-170 deg.C.

**Materials to Avoid**

Strong basic, acidic or oxidising materials.

**Hazardous Decomposition Products**

None under normal conditions of storage and use.

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**11. TOXICOLOGICAL INFORMATION****Ingestion**

Single dose oral toxicity is considered to be moderate. The oral LD50 for rats is 1710 mg/kg.

**Skin Contact**

The dermal LD50 for rats is >2000 mg/kg. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Essentially non-irritating to skin.

**Sensitisation**

Non-sensitising to guinea pig skin.

**Eye Contact**

Essentially non-irritating to eyes.

**Inhalation**

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

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**Other Information**

Not mutagenic.  
Not carcinogenic.  
Not toxic for reproduction.

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**12. ECOLOGICAL INFORMATION****Persistence and Degradability**

Material is expected to degrade only slowly in the environment. Material can potentially penetrate soil and reach ground water. No appreciable volatilization from water to air is expected.

**Aquatic Toxicity**

Material is not harmful to fish on an acute basis (LC50>100mg/L). Material is slightly toxic to aquatic invertebrates on an acute basis (10mg/L <LC50 <100mg/L). Algal toxicity EC50 for green algae is 0.092mg/L. Very toxic to algae.

**Avian Toxicity**

Assessment largely or completely based on data for active ingredient.

For birds, material is expected to be of low toxicity. Acute toxicity varies according to species >500mg/kg.

**Other Information**

The 14-day LC50 in earthworm *Eisena foetida* is >2000 mg/kg.

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**13. DISPOSAL CONSIDERATIONS**

For aquatic organisms, material is expected to be Very Toxic. Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. Burn in an adequate incinerator or bury in an approved landfill in compliance with applicable regulations. Do not re-use container for any purpose.

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(Contains Tebuthiuron 44% w/w)

Truck - ADR Loaded : 9-11c Empty : 9-91 Label : 9

Rail - RID Loaded : 9-11c Empty : 9-91 Label : 9

Filling % Packed :

Filling % Bulk :

Filling Kg/L (Gas) :

Kemler Code : 90 UN Number : 3082

Tremcard Nr. CEFIC : 90GM6-III

Tremcard Nr. Other :

Barge - ADNR Loaded : 9-11c Empty : 9-91 Label: 9

Ship Type : CATG. :

**Sea**Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Contains Tebuthiuron 44% w/w)

Sea - IMO/IMDG Class: 9 UN Nr : 3082 Label: 9

Packing Group : III EMS : MFAG :

Container Type : Marine Pollutant : N (Y/N)

Test Pressure (bar) : Filling % Packed :

Filling % Bulk :

Filling Kg/L (Gas) :

**Air**Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Contains Tebuthiuron)

Air-ICAO/IATA Class : 9 UN Nr : 3082 Label: 9

Sub Class :

Packing Group : III Pack Instr. Passenger : 914

Pack Instr. Cargo : 914

**Remarks** : Sample shipment not allowed by mail.**15. REGULATORY INFORMATION****Hazard Symbol** : Xn - Harmful**Risk Phrases** : Harmful if swallowed. (R22)

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**Safety Phrases :** Keep out of reach of children. (S2)  
Keep away from food, drink and animal feeding stuffs.  
(S13)  
Do not breathe vapour/gas/fumes/spray. (S23)  
This material and its container must be disposed of  
as hazardous waste. (S60)  
Avoid release to the environment. Refer to special  
instructions/Safety data sheet. (S61)

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**16. OTHER INFORMATION**

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This Matial Safety Data Sheet complies with basic EU regulatory requirements for Safety Data Sheets on the date of publication, and is intended for translation and adaptation into European National documents. This document should NOT be relied upon for compliance with the laws and regulations of individual countries without the appropriate local translations and adaptations. It is your responsibility to ensure that any Safety Data Sheet taken or adapted from this system for re-distribution or use complies with all the laws and regulations which apply to any such use or re-distribution.