

# SAFETY DATA SHEET

## ATERBUTREX 500 SC

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

**Product name** : ATERBUTREX 500 SC  
**Chemical name of active ingredient(s)** : Atrazine:  
 6-Chloro-N<sup>2</sup>-ethyl-N<sup>4</sup>-isopropyl-1,3,5-triazine-2,4-diamine  
 Terbutryn:  
 N<sup>2</sup>-tert-butyl-N<sup>4</sup>-ethyl-6-methylthio-1,3,5-triazine-2,4-diamine  
**Manufacturer** : Agan Chemical Manufacturers Ltd.  
 Northern Industrial Zone,  
 P.O.Box 262, Ashdod, Israel.  
**Emergency telephone number** : +972-8-8515211

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation** : Preparation

**Information on hazardous ingredients** \*

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Atrazine	1912-24-9	22 - 24	217-617-8	Xn,N	R43-48/22-50/53
Terbutryn	886-50-0	22 - 24	212-950-5	Not classified	-

\* *Occupational Exposure Limit(s), if available, are listed in section 8*

### 3. HAZARDS IDENTIFICATION

**Most important hazards** : May cause sensitization by skin contact. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST-AID MEASURES

**Effects and symptoms**

**First-aid measures** : Remove victim from area of exposure. Wash off remaining material with plenty of water.

**Inhalation** : Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.

**Ingestion** : Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.

**Skin contact** : Remove contaminated clothing. Wash away remainder with water and soap.

**Eye contact** : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.

**Notes to a physician** : There is no specific antidote. Treat symptomatically and give supportive therapy.

**Protection of first-aiders** : Use appropriate protection (see section 8).

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#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

- Suitable** : Dry chemical, water spray, foam, carbon dioxide.
- Hazardous thermal (de)composition products** : Chloride compounds, Sulfur oxides and nitrogen oxides.
- Protection of fire-fighters** : Self-contained breathing apparatus and total protection required in enclosed areas.

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear suitable protective clothing.
- Environmental precautions** : Do not discharge into drains or the environment.
- Methods for cleaning up** : Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

#### 7. HANDLING AND STORAGE

- Handling** : Ventilation required.
- Storage** : Keep only in the original container. Keep in a cool, dry, well ventilated place away from direct sunlight.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures** : Ventilation required.
- Hygiene measures** : When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
- Occupational Exposure Limits**
- Common name** : **Atrazine**
- TLV (USA)** : 5 mg/m<sup>3</sup>
- "MAK" (Germany)** : 2 mg/m<sup>3</sup>
- OEL (United Kingdom)** : 10 mg/m<sup>3</sup>
- Common name** : **Terbutryn**
- Common name** : Not established
- Personal protective equipment**
- Respiratory system** : Respiratory protection is not required if good ventilation is maintained.
- Skin and body** : Wear suitable protective clothing. Chemical resistant boots.
- Hands** : Chemical resistant gloves.
- Eyes** : Safety goggles or face shield.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Off-white
- Odour** : Faint odour

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<b>Boiling point</b>	: 100°C (water)
<b>Density</b>	: 1.09 ± 0.02 g/mL @ 20°C
<b>Vapour pressure</b>	: 0.04 mPa @ 25°C (Atrazine) 0.23 mPa @ 25°C (Terbutryn)
<b>Solubility in water</b>	: 28 ppm @ 20°C (Atrazine) 22 ppm @ 20°C (Terbutryn)
<b>Octanol/water partition coefficient</b>	: log = 2.44 (Atrazine) log = 3.65 (Terbutryn)
<b>pH</b>	: 6.5 - 8.5 CIPAC, MT 75
<b>Flammability</b>	: Not flammable
<b>Explosion properties</b>	: Not explosive
<b>Oxidation properties</b>	: Not oxidizing

#### 10. STABILITY AND REACTIVITY

<b>Stability</b>	: Not subject to polymerization.
<b>Materials to avoid</b>	: Oxidizing agents, acids and alkali.
<b>Hazardous reactions</b>	: None
<b>Hazardous decomposition products</b>	: Chloride compounds, Sulfur oxides and nitrogen oxides.

#### 11. TOXICOLOGICAL INFORMATION

##### Preparation

Estimated from toxicity data of constituents

<b>Acute toxicity - Oral</b>	: LD <sub>50</sub> (rat) > 2,000 mg/kg
<b>Acute toxicity - Dermal</b>	: LD <sub>50</sub> (rabbit) > 2,000 mg/kg
<b>Acute toxicity - Inhalation</b>	: LC <sub>50</sub> (rat) > 5 mg/L
<b><u>Common name</u></b>	: <b>Atrazine</b>
<b>Chronic toxicity</b>	: NOEL (rat): 10 ppm
<b>Carcinogenicity</b>	: EPA : Group C EU : Carc. Cat. 3 IARC : Group 2B
<b>Mutagenicity</b>	: Not mutagenic
<b>Reproduction toxicity</b>	: NOEL (rat): 50 ppm (2 generation)
<b>Other information</b>	: Teratogenicity - NOEL (rat): 25 mg/kg/day
<b><u>Common name</u></b>	: <b>Terbutryn</b>
<b>Chronic toxicity</b>	: NOEL (rat) = 300 ppm (2 years) NOEL (mice) = 3,000 ppm (2 years) NOEL (dog) = 100 mg/kg/day (1 year).
<b>Carcinogenicity</b>	: EPA : Group C EU : Not classified IARC : Not classified
<b>Mutagenicity</b>	: Not mutagenic

#### 12. ECOLOGICAL INFORMATION



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**Ecotoxicity**

: **Fish**

LC<sub>50</sub> (96 hours) rainbow trout (oncorhynchus mykiss) = 1.1 mg/L  
 bluegill sunfish (lepomis macrochirus) = 1.3 mg/L  
 carp (cyprinius caprio) = 1.4 mg/L

**Daphnia magna**

EC<sub>50</sub> (48 hours) = 2.66 mg/L

**Algae** (selenastrum capricornutum)

EC<sub>50</sub> (7 days) = 0.013 mg/L

**Birds**

LC<sub>50</sub> (5 day feeding) bobwhite quail (colinus virginianus) = 5,000 ppm  
 mallard duck (anas platyrhynchos) > 4,640 mg/kg

**Bees**

Oral LD<sub>50</sub> > 225 µg/bee

Contact LD<sub>50</sub> > 100 µg/bee

Toxic to aquatic organisms. Low toxicity: birds. Non toxic: bees.

**13. DISPOSAL CONSIDERATIONS**

**Methods of disposal**

: Dispose of in a pesticide approved landfill or in a chemical incinerator equipped with scrubbers, In accordance with national and regional regulations.

**14. TRANSPORT INFORMATION**

**International transport regulations**

UN number : 3082

**Land - Road/Railway**

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S., Atrazine, Terbutryn.

ADR/RID Class : 9, M6, PG III

Hazard Identification : 90

Number

**Inland waterways**

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S., Atrazine, Terbutryn.

ADNR Class : 9, M6, PG III

**Sea**

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S., Atrazine, Terbutryn.

IMDG Class : 9

Packing group : III

Emergency Schedules (EmS) : F-A, S-F

**Air**

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S., Atrazine, Terbutryn.

UN/ID Number : 3082

IATA-DGR Class : 9, PG III

**National transport regulations**

No additional national transport regulations are known to the supplier

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### 15. REGULATORY INFORMATION

**Classification** : According to Commission Directives 67/548/EEC, 1999/45/EC.  
**Hazard symbol(s)** : Xn, N



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

**Risk phrases** : R43: May cause sensitization by skin contact.  
R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** : S02: Keep out of the reach of children.  
S13: Keep away from food, drink and animal feedingstuffs.  
S29/35: Do not empty into drains; dispose of this material and its container in a safe way.  
S36/37: Wear suitable protective clothing and gloves.  
S46: If swallowed, seek medical advice immediately and show this container or label.  
S57: Use appropriate containment to avoid environmental contamination.  
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

### 16. OTHER INFORMATION

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

#### **HISTORY**

**Date of printing** : 30/01/2007  
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**Date of issue** : 30/01/2007  
**Version** : 001

The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code

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