



# MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 30 / 7 / 2008

Supersedes : 0 / 0 / 0

## TYLLANEX 80 WG

**H-0356(37214)**

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

**Trade name** : TYLLANEX 80 WG  
**Chemical description** : Terbutylazine: N2-tert-butyl-6-chloro-N4-ethyl-1,3,5-triazine-2,4-diamine  
**Use** : Herbicide.  
**Company identification** : Agan Chemical Manufacturers Ltd.  
P.O.B. 262  
ASHDOD Israel  
**Emergency phone nr** : +972-8-8515211  
**Email** : MSDS@ma-industries.com

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Terbutylazine	: 78 - 83 %	5915-41-3	227-637-9	-----	

### 3. HAZARDS IDENTIFICATION

**Environmental hazard** : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

**First aid**  
**Inhalation** : Remove victim to fresh air. If breathing is difficult: artificial respiration . Get medical attention.  
**Ingestion** : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.  
**Skin contact** : Remove contaminated clothing and shoes. Wash away remainder with plenty of water.  
**Eye contact** : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.  
**Note to physician** : No specific antidote known. Treat symptomatically and give supportive therapy.  
**Protection of first-aiders** : Use appropriate protection (see section 8).

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media** : For small fire : dry chemical powder , water spray carbon dioxide  
For large fire : foam , water fog , water spray.  
**Hazardous decomposition products** : Chloride compounds , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .  
**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, gloves and eye/face protection.  
**Environmental precautions** : Do not empty into drains. Do not discharge into the environment.  
**After spillage and/or leakage** : Absorb in sand or other inert material. Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.



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### 7. HANDLING AND STORAGE

Handling	: Ventilation required.
Storage	: Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.
Precautions in handling and storage	: Handle in accordance with good industrial hygiene and safety procedures.
Storage - away from	: Direct sunlight .

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	: Ventilation required.
Industrial hygiene	: Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
Personal protection	
- Respiratory protection	: Dust mask .
- Skin protection	: Wear suitable protective clothing Wear safety boots.
- Hand protection	: Wear suitable gloves.
- Eye protection	: Chemical goggles or safety glasses.
Occupational Exposure Limits	
TLV	: <b>Terbutylazine: No data available.</b>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Granules
Colour	: Brown
Odour	: Faint odour
Melting point [°C]	: 177-179 (Terbutylazine)
Bulk density [g/cc]	: 0.5
Vapour pressure [mPa]	: 0.15 (25 °C) (Terbutylazine)
Solubility in water	: Dispersible
Log P octanol / water	: 3.21(Terbutylazine)
Flammability	: Not flammable
Explosion properties	: Not explosive
Oxidation properties	: Not oxidizing

### 10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Hazardous decomposition products	: Chloride compounds , nitrogen oxides (NO, NO <sub>2</sub> ...) , carbon oxides (CO, CO <sub>2</sub> ) .
Materials to avoid	: oxidizing agents , acids , alkali .

### 11. TOXICOLOGICAL INFORMATION

On product	: <b>Based on data of ingredients</b>
Rat oral LD50 [mg/kg]	: >2,000
Rat dermal LD50 [mg/kg]	: > 2,000
Rat inhalation LC50 [mg/l/4h]	: >4.85
Dermal irritation (rabbit)	: Not irritating
Eyes irritation (rabbit)	: Not irritant
Sensitization	: Non sensitizer
Carcinogenicity	: Terbutylazine: EPA: Group D -inadequate evidence to. determine carcinogenicity in humans.



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### 11. TOXICOLOGICAL INFORMATION (continued)

**Mutagenicity** : EU , IARC : not classified.  
: Terbutylazine: Not mutagenic.

### 12. ECOLOGICAL INFORMATION

**Common name** : **Terbutylazine**  
**96 H-LC50 - Rainbow trout [mg/l]** : 3.8-4.6  
**48 H-EC50 - Daphnia magna [mg/l]** : 21.2  
**72 H-EC50 Algae [mg/l]** : 0.016  
**Birds LC50 [ppm]** : Bobwhite quail >1,000  
**Bees LD50 [µg/Bee]** : Not toxic to bees  
**Persistence and degradability** : **Soil** :  
: The product is persistent to some extent.  
: Half-life time (t1/2) :88-112 days.  
**Mobility** : **Soil** :  
: Low mobility .

### 13. DISPOSAL CONSIDERATIONS

**Disposal** : Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.

### 14. TRANSPORT INFORMATION

- **UN No.** : 3077  
- **Proper shipping name** : UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.( TERBUTHYLAZINE), 9, III  
- **Packing group** : III  
- **Class** : 9  
- **H.I. nr** : 90  
- **IMDG-Marine pollution** : NO

### 15. REGULATORY INFORMATION

**EU Classification** : According to Commision Directive 67/548/EEC and its amendments  
**Symbol(s)**



**R Phrase(s)** : N: Dangerous for the environment.  
: R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**S Phrase(s)** : 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.  
: 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



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## 15. REGULATORY INFORMATION (continued)

sheets.

## 16. OTHER INFORMATION

**Print date** : 30 / 7 / 2008

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