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TYLLANEX 80 WG		H-0356(37214)

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Trade name : TYLLANEX 80 WG
Substance name : Terbutylazine: N2-tert-butyl-6-chloro-N4-ethyl-1,3,5-triazine-2,4-diamine
Relevant identified uses : Herbicide
Company identification : ADAMA SOUTH AFRICA (PTY) LTD
21 Viben Street
Brackenfell 7560
Email : msds@mcw.co.il
Emergency phone nr : +27 82 331 6463
+27 21 982 1460

SECTION 2. Hazards identification

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

SECTION 3. Composition/information on ingredients

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Terbutylazine	: 78 - 83 %	5915-41-3	227-637-9	----	----	N; R50-53

SECTION 4. First aid measures

First aid measures
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration . 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.
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. 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).

SECTION 5. Fire-fighting measures

Suitable extinguishing media : For small fire : dry chemical powder , water spray carbon dioxide
For large fire : foam , water fog , water spray.
Protection against fire : Self-contained breathing apparatus and total protection required in enclosed areas.
Hazardous decomposition products : Chloride compounds , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) .

SECTION 6. Accidental release measures

For emergency responders : Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions : Do not empty into drains Do not discharge into the environment.
Clean up methods : 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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SECTION 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 .

SECTION 8. Exposure controls/personal protection

TLV©	: Terbutylazine: Data not available.
	: Ventilation required.
	: Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
Personal protection	
• Respiratory protection	: Dust mask .
• Hand protection	: Wear suitable gloves.
• Skin protection	: Wear suitable protective clothing Wear safety boots.
• Eye protection	: Chemical goggles or safety glasses.

SECTION 9. Physical and chemical properties

Physical state at 20 °C	: Granules
Colour	: Brown
Odour	: Faint odour
Melting point [°C]	: 177-179 (Terbutylazine)
Flammability	: Not flammable
Vapour pressure [mPa]	: 0.15 (25 °C) (Terbutylazine)
Bulk density [g/cc]	: 0.5
Solubility in water	: Dispersible
Log P octanol / water at 20°C	: 3.21(Terbutylazine)
Explosive Properties	: Not explosive
Oxidising properties	: Not oxidizing

SECTION 10. Stability and reactivity

Stability	: Stable under normal conditions.
Hazardous decomposition products	: Chloride compounds , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) .
Materials to avoid	: oxidizing agents , acids , alkali .

SECTION 11. Toxicological information

On product	: Based on data of ingredients
- Rat oral LD50 [mg/kg]	: >2,000
- Dermal, Rat 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
Mutagenicity	: Terbutylazine: Not mutagenic

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SECTION 11. Toxicological information (continued)

Carcinogenicity : Terbutylazine: EPA: Group D -inadequate evidence to. determine carcinogenicity in humans.
EU , IARC : not classified.

SECTION 12. Ecological information

On product : **The data below are for 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] : Not toxic to bees

Persistence - degradability : **Soil :**

: The product is persistent to some extent.
Half-life time (t1/2) :88-112 days.

Mobility : **Soil :**

: Low mobility .

SECTION 13. Disposal considerations

General : 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.

SECTION 14. Transport information

UN N° : 3077

Proper shipping name : UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(
TERBUTHYLAZINE), 9, III

- H.I. no : 90

- IMO-IMDG - class or division : 9

- Packing group : III

- IMDG-Marine pollution : Yes

SECTION 15. Regulatory information

EU Classification : According to Commision Directive 67/548/EEC, 1999/45/EC and its amendments

Symbol(s)



: N: N : Dangerous for the environment.

R Phrase(s) : 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 sheets.

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SECTION 16. Other information

List of relevant R phrases (heading 3) : R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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