



MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 13 / 2 / 2008

Supersedes : 0 / 0 / 0

ATRANEX 90 WG

H-0056

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

Trade name : ATRANEX 90 WG
Chemical description : Atrazine: 6-chloro-N2-ethyl-N4-isopropyl-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
Atrazine	%	1912-24-9	217-617-8	613-068-00-7	Carc. Cat. 3; R40 Xn; R48/22 R43 N; R50-53

3. HAZARDS IDENTIFICATION

Human health hazards : R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed.
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 : Collect spills and put it into appropriated container. Dispose of this material and its



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6. ACCIDENTAL RELEASE MEASURES (continued)

container at hazardous or special waste collection point.
Keep away from combustible material.

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 [mg/m³]** : Atrazine : 5
- OEL (UK)-STEL [mg/m³]** : Atrazine : 10
- MAK - Germany [mg/m³]** : Atrazine : 2

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Granules
- Colour** : Whitish
- Odour** : Faint odour
- Melting point [°C]** : 172-175
- Bulk density [g/cc]** : 0.47
- Vapour pressure [mPa]** : 0.04 @ 25°C (Atrazine)
- Solubility in water** : Miscible.
- Flammability** : Not flammable
- Log P octanol / water** : 2.44 (Atrazine)
- 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, NO₂...) , carbon oxides (CO, CO₂) .
- Materials to avoid** : oxidizing agents , acids , alkali .



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11. TOXICOLOGICAL INFORMATION

On product

Rat oral LD50 [mg/kg]	: >5,000
Rat dermal LD50 [mg/kg]	: > 5,000
Rat inhalation LC50 [mg/l/4h]	: >2.07
Dermal irritation (rabbit)	: Not irritating
Eyes irritation (rabbit)	: Mildly irritating
Sensitization	: Non sensitizer
Chronic toxicity	: (Atrazine): NOEL (rat)=10 ppm (2 years).
Carcinogenicity	: (Atrazine): EPA Group C: Possible human carcinogen. EU: Carc.Cat. 3 IARC classification: group 2B
Mutagenicity	: (Atrazine): Not mutagenic.
Reproductive toxicity	: (Atrazine): NOEL (rat)= 50 ppm (2 generations)
Teratogenicity	: (Atrazine): NOEL (rat)=25 mg/kg/day

12. ECOLOGICAL INFORMATION

On product	: Atranex 90 WG
96 Hour - LC50- fish [mg/l]	: Zebra fish =103.14
48 H-EC50 - Daphnia magna [mg/l]	: 394.6
72 H-EC50 Algae [mg/l]	: 0.12
LD50 Birds [mg/kg]	: Japanese quail >2,000
Bees LD50 [µg/Bee]	: Oral =92.6 Contact > 100
Persistence and degradability	: Atrazine: Soil : : The product is not persistent. Half-life time (t1/2) : 16-77 days. Degradation is primarily via: chemical hydrolysis : Atrazine: Water : : Half-life time (t1/2) :10-105 days.
Mobility	: Atrazine: Soil : : Moderately mobile Koc 39-173 ml/g Kd 0.2-18 ml/g
Bioaccumulative potential	: (Atrazine): Bioaccumulation in aquatic organisms is expected.

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.
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14. TRANSPORT INFORMATION

International transport regulations	
- UN No.	: 3077
- Proper shipping name	: Environmentally hazardous substances, solid, N.O.S. (Atrazine).
Land transport	

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P.O.B. 262 ASHDOD Israel



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14. TRANSPORT INFORMATION (continued)

- H.I. nr : : 90
- ADR/RID : : Class 9, M7, PG III
- Sea transport**
- IMO-IMDG code : : Class 9, PG III
- EMS-Nr : : F-A, S-F
- Air transport**
- IATA - Class or division : : 9, PG III
- National transport regulations** : : No additional national regulations are available/required

15. REGULATORY INFORMATION

EU Classification : According to Commission Directive 67/548/EEC and its amendments

Symbol(s)

: Harmful.
Dangerous for the environment.

R Phrase(s)

: 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.

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.
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

Text of R-phrases in heading 2 : 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.

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