



MATERIAL SAFETY DATA SHEET

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SUPRANEX 600 SC

H-0314(05216)

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

Trade name : SUPRANEX 600 SC
Chemical description : Atrazine: 6-chloro-N2-ethyl-N4-isopropyl-1,3,5-triazine-2,4-diamine
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
Atrazine	: 25 - 28 %	1912-24-9	217-617-8	613-068-00-7	Xn; R48/22 R43 N; R50-53
Terbutylazine	: 25 - 28 %	5915-41-3	227-637-9	-----	

3. HAZARDS IDENTIFICATION

Human health hazards : May cause sensitization by skin contact. 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 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	: Respiratory protection is not required if good ventilation is maintained
- 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	: Terbutylazine: No data available.
TLV [mg/m ³]	: Atrazine : 5
OEL (UK)-STEL [mg/m ³]	: Atrazine : 10
MAK - Germany [mg/m ³]	: Atrazine : 2

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Suspension concentration.
Colour	: Whitish
Odour	: Faint odour
pH value	: 6-8
Density [gr/ml]	: 1.12 ± 0.015 @ 20°C
Vapour pressure [mPa]	: 0.04 @ 25°C (Atrazine) 0.15 @ 25 °C (Terbutylazine)
Solubility in water	: Miscible
Log P octanol / water	: 2.44 (Atrazine) 3.04 (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 ₂ ...) , carbon oxides (CO, CO ₂) .
Materials to avoid	: oxidizing agents , acids , alkali .

11. TOXICOLOGICAL INFORMATION

On product	: Based on data of ingredients
Rat oral LD50 [mg/kg]	: >2,000
Rat dermal LD50 [mg/kg]	: > 2,000
Rat inhalation LC50 [mg/l/4h]	: >4.8 (Terbutylazine)



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11. TOXICOLOGICAL INFORMATION (continued)

Dermal irritation (rabbit)	: Mildly irritating
Eyes irritation (rabbit)	: Mildly irritating
Carcinogenicity	: Atrazine: : EPA Group C: Possible human carcinogen. EU: Carc.Cat. 3 IARC classification: group 2B
	: Terbutylazine: : EPA: Group D EU , IARC : Not classified
Mutagenicity	: Not mutagenic.
Reproductive toxicity	: Not teratogenic in animal experiments

12. ECOLOGICAL INFORMATION

Ecological effects information	
96 H-LC50 - Rainbow trout [mg/l]	: Terbutylazine: 3.8-4.6
96 Hour - LC50- fish [mg/l]	: Atrazine : Guppy=5.31
48 H-EC50 - Daphnia magna [mg/l]	: Atrazine : 44 Terbutylazine: 21.2
72 H-EC50 Algae [mg/l]	: Atrazine : 3.14 Terbutylazine : 0.016
LD50 Birds [mg/kg]	: Terbutylazine: Mallard duck >1,000
LD50 - Japanese quail [mg/kg]	: Atrazine : 1796
Bees LD50 [µg/Bee]	: Not toxic to bees
Persistence and degradability	: Atrazine : Soil : : The product is not persistent. Half-life time (t1/2) : 16-77 days. : Atrazine : Water : : Half-life time (t1/2) :10-105 days. : Terbutylazine: Soil : : The product is persistent to some extent. Adsorbed on organic matter and clay. Half-life time (t1/2) : 30-60 days : Terbutylazine: Water : : Half-life time (t1/2) : 25-86 days
Mobility	: Soil : Low- Moderately mobile
Bioaccumulative potential	: Low bioaccumulation potential

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

- UN No.	: 3082
- Proper shipping name	: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Atrazine, Terbutylazine), 9, III
- Packing group	: III

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14. TRANSPORT INFORMATION (continued)

- Class : 9
- H.I. nr : 90
- IMDG-Marine pollution : NO

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)

: 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.

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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