

Safety Data Sheet (SDS) TARZAN 600

According to UN GHS 8th Ed

Revision Date: 14/10/2022

Version: 1.1

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

Product identifier:

Identification as on the label/Trade name: TARZAN 600

Product name: Atrazine 290 g/l + Terbutylazine 290 g/l SC

Relevant identification uses of the substance and uses advised against:

Identified uses: Herbicide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Details of the Registration Holder:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

Emergency telephone numbers:

24 Hour Emergency Number: Bateleur: +27 83 123 3911

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to Regulation (EC) No 1272/2008 EU-GHS/CLP

Hazard classes/Hazard categories	Hazard statement
Acute toxicity (oral, dermal), Category 5	H303+H313
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Full text of H statements : see section 16

The most important adverse effects

The most important adverse physicochemical effects: None known

The most important adverse human health effects: May cause damage to organs through prolonged and repeated exposure

Label elements



Hazard pictograms:

Signal Word: Danger

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Hazard Statements:

H303+H313	May be harmful if swallowed or in contact with skin.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs (heart, kidneys) through prolonged or repeated oral/dermal exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment
P280	Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P301+P312	IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplemental first aid instruction on this label).
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of content/container to suitable landfill in accordance with local regulations.

Other hazards: None known

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS
Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Atrazine	1912-24-9	25 - 50	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Terbutylazine	5915-41-3	25 - 50	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
monoethylene glycol	107-21-1	< 5	Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 2, H373
Soprophor FL	105362-40-1	< 5	Acute Tox. 5 (Dermal), H313

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

In case of skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse.

In case of eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

In case of ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label).

Most important symptoms and effects, both acute and delayed:

Symptoms/effects: Causes damage to organs.

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively

SECTION 5. FIRE FIGHTING MEASURES

Extinguisher media:

Suitable extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

No information available.

Advice for fire-fighters:

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment, and emergency procedures:

Personal precautions: Equip cleanup crew with proper protection

For emergency responders: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

Emergency procedure: Ventilate area.

Environmental precautions:

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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Methods for containment and cleaning up:

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections:

- See section 1 for emergency contact details
- See section 7 for information on safe handling.
- See section 8 for information on personal protection equipment.
- See section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Conditions for safe storage, including incompatibilities:

Storage conditions: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL):

Atrazine (1912-24-9)	
Austria - Occupational Exposure Limits	
Local name	Atrazin
MAK (mg/m ³)	2 mg/m ³
Remark (AT)	Sh
Regulatory reference	BGBl. II Nr. 186/2015

monoethylene glycol (107-21-1)	
EU - Occupational Exposure Limits	
Local name	Ethylene glycol
IOELV TWA (mg/m ³)	52 mg/m ³
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m ³)	104 mg/m ³

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monoethylene glycol (107-21-1)	
IOELV STEL (ppm)	40 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

Other information:

Do not eat, drink or smoke during use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
Information on basic physical and chemical properties

Physical state	Liquid
Colour	Off-white
Odour	Slight
Odour threshold	No data available
pH	5 - 8
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

SECTION 10. STABILTY AND REACTIVITY
Reactivity: None known

Chemical stability: Not established

Possibility of hazardous reactions: Not established

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Incompatible materials: Strong acids. Strong bases.

Hazardous decomposition products: fume. Carbon monoxide. Carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION
Toxicokinetics, metabolism and distribution: No data available

Information on toxicological effects:
Assessment of acute toxicity:

The product has not been tested. The data reported is for the main ingredients in the mixture.

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Atrazine (1912-24-9)	
Acute toxicity:	
LD50 oral rat	1 960 - 2 220 mg/kg
LD50 dermal rat	>2000 mg/kg
LC50 inhalation rat (ppm)	>5.8 mg/l/4h

Terbutylazine (5915-41-3)	
Acute toxicity:	
LD50 oral rat	1000 - 1590 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.3 mg/l/4h

monoethylene glycol (107-21-1)	
Acute toxicity:	
LD50 oral rat	7712 mg/kg
LD50 dermal	3500 mg/kg (mouse)
LC50 inhalation rat (mg/l)	2.5 mg/l (Aerosol - 6 h)

Soprophor FL	
Acute toxicity:	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation	Not classified
Additional information	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Not classified
Additional information	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Additional information	Based on available data, the classification criteria are not met
Carcinogenicity	Not classified
Additional information	Based on available data, the classification criteria are not met
Reproductive toxicity	Not classified
Additional information	Based on available data, the classification criteria are not met
STOT-single exposure	Not classified
Additional information	Based on available data, the classification criteria are not met
STOT-repeated exposure	May cause damage to organs (heart, kidneys) through prolonged or repeated oral/dermal exposure
Aspiration hazard	Not classified
Additional information	Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	May be harmful if swallowed. May be harmful in contact with skin.

Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12. ECOLOGICAL INFORMATION

Atrazine (1912-24-9)	
LC50 fish	4.3 mg/l guppies
EC50 Daphnia	29 mg/l Daphina magna
EC50 72h algae (1)	0.043 mg/l
Bioaccumulative potential	
Persistence and degradability	May cause long-term adverse effects in the environment.
Log Kow	2.5 (@ 25 degrees Celcius)
Bioaccumulative potential	Not established.

Terbutylazine (5915-41-3)	
LC50 fish	2.2 mg/l/96h (rainbow trout)
EC50 Daphnia	>69.3 mg/l Daphina magna
ErC50 (algae)	0.016 mg/l Scenedesmus subspicatus
Bioaccumulative potential	
BCF fish	34 (Lepomis macrochirus)
Log Pow	3.4 (20 °C)

Monoethylene glycol (107-21-1)	
EC50 Daphnia	100 mg/l/48h
Bioaccumulative potential	
Log Pow	-1.36 (25 °C)

Soprophor FL	
LC50 Fish	> 3.0 mg/l/48h Brachydanio rerio

Mobility in soil: No additional information available.

Results of PBT and vPvB assessment: No additional information available.

Other adverse effects:

Additional information: Avoid release to the environments.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14. TRANSPORT INFORMATION

UN Number	3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Atrazine 290 g/l + Terbutylazine 290 g/l)
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

SECTION 15. REGULATORY INFORMATION

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Safety, health, and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

Full text of H- statements:

Acute Tox. 5 (Oral) Acute toxicity (oral), Category 5

Acute Tox. 5 (Dermal) Acute toxicity (dermal), Category 5

Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1

Skin Sens. 1 Skin sensitisation, Category 1

STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2

H303 May be harmful if swallowed.

H313 May be harmful in contact with skin

H317 May cause an allergic skin reaction.

H373 May cause damage to organs (heart, kidneys) through prolonged or repeated oral/dermal exposure

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.