

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

Version 2

Print date: 12/12/2022

1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product name:	TYLLANEX EXTRA
Active Ingredient:	Terbuthylazine 497.2 + S-metolachlor 102.8 g/L
Registration number:	L11120
Recommended use of the chemical and restrictions on use	Herbicide
Registration holder:	ADAMA South Africa (Pty) Ltd Ground Floor, Simeka House The Vineyards Office Estate, 99 Jip de Jager Drive Bellville 7530
Phone number:	+ 27 21 982 1460
Emergency phone number(s):	Griffon Poison Information Centre: +27 (0)82 446 8946 Tygerberg Poison Information Centre: +27 (0)861 155 5777 SPILL TECH®: +27(0)86 100 0366; +27 (0)83 253 6618

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazard Class	Category	Hazard Statement Number
Acute Toxicity, Oral	Category 4	H302
Acute Toxicity, Dermal	Category 5	H313
Acute Toxicity, Inhalation	Category 5	H333
Skin Corrosion/Irritation	Category 3	H316
Serious Eye Damage/Irritation	Category 1	H318
Skin sensitization	Category 1	H317
Carcinogenicity	Category 2	H351
Reproductive toxicity	Category 2	H361
Specific target organ toxicity – Repeated	Category 2	H373
Respiratory sensitization	Category 1	H334
Aquatic Toxicity - Acute	Acute 1	H400
Aquatic Toxicity - Chronic	Chronic 1	H411

GHS Label elements, including precautionary statements:



Signal word:

DANGER

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

Version 2

Print date: 12/12/2022

Hazard statement(s):

H302: Harmful if swallowed
H313: May be harmful in contact with skin
H333: May be harmful if inhaled
H316: Causes mild skin irritation
H318: Causes serious eye damage
H317: May cause an allergic skin reaction
H351: Suspected of causing cancer.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400: Very toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects

Precautionary statement(s):

P203: Obtain, read and follow all safety instructions before use.
P260: Do not breathe dust/fume/gas/mist/ vapours/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
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 protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284: [In case of inadequate ventilation] wear respiratory protection.
P301 + P317 IF SWALLOWED: Get medical help.
P302 + P317 IF ON SKIN: Get medical help.
P302 + P352 IF ON SKIN: Wash with plenty of water...
P304 + P317 IF INHALED: Get medical help.
P304 + P340: IF INHALED: remove person to fresh air and keep comfortable for breathing.
P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317 Get medical help.
P318: IF exposed or concerned, get medical advice.
P319: Get medical help if you feel unwell.
P321 Specific treatment.
P330 Rinse mouth.
P332 + P317 If skin irritation occurs: Get medical help.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P342 + P316: If experiencing respiratory symptoms: Get emergency medical help immediately.
P362 + P364 Take off contaminated clothing and wash it before reuse.

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

Version 2

Print date: 12/12/2022

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification:

No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)	Classification
Terbutylazine	5915-41-3	49.72	Acute Toxicity, Oral, Category 4. Acute dermal: Category 5. Acute inhalation: Category 5. Skin Corrosion/Irritation, Category 1. Serious Eye Damage/Irritation, Category 1 Specific target organ toxicity – Repeated: Category 2 Aquatic Toxicity, Acute, Category 1. Aquatic Toxicity, Chronic, Category 1.
S-metolachlor	87392-12-9	10.28	Acute oral : Category 5 Acute dermal : Category 4 Acute inhalation : Category 5 Skin sensitization, Category 1. Aquatic Toxicity, Acute: Category 1 Aquatic Toxicity, Chronic, Category 1.
Naphthalene Sulfonate Formaldehyde Condensate Sodium Salt	9084-06-4	6	Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 1. Aquatic Toxicity, Chronic, Category 3.
Dimethylpolysiloxane	63148-62-9	0.2	Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 2. Specific target organ toxicity – Repeated: Category 2 Aquatic Toxicity, Chronic, Category 3.
Ethylene glycol	107-21-1	2.8	Acute Toxicity, Oral, Category 4. Acute dermal : Category 5 Acute inhalation : Category 4 Skin Irritation, Category 2. Eye Irritation, Category 2.

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

Version 2

Print date: 12/12/2022

			Specific target organ toxicity – Repeated: Category 2 Aquatic Toxicity, Chronic, Category 3.
Polysaccharide gum	11138-66-2	0.1	Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 2. Carcinogenicity: Category 2 Respiratory sensitization: Category 1
Paraformaldehyde	30525-89-4	0.1	Acute Toxicity, Oral, Category 4. Acute Toxicity, Inhalation, Category 4. Skin Irritation, Category 2. Eye Irritation, Category 2. Skin sensitization, Category 1. Aquatic Toxicity, Chronic, Category 3.
Magnesium aluminum silicate	1327-43-1	1.1	Acute Toxicity, Oral, Category 5. Acute Toxicity, Inhalation, Category 5 Aquatic Toxicity, Acute, Category 1 Aquatic Toxicity, Chronic : Category 3.
Water	7732-18-5	Balance	Ignore

4. FIRST AID MEASURES

Description of necessary first aid measures

Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting. Seek medical advice immediately showing container and label.

Inhalation: Remove source of contamination, or move victim to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Administration of oxygen should be performed by qualified personnel. Get medical attention if effects persist.

Skin contact: Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice.

Eye contact: Immediately flush the eyes with clean, gently flowing lukewarm water or saline solution for 15 - 20 minutes, holding the eyelid(s) open. If irritation persists, seek medical advice.

Advice to doctors: There is no specific antidote. All treatment should be based on the patient's painful signs and symptoms.

Antidote: No specific antidote.

Most important symptoms/effects, acute and delayed:

To date no symptoms are known.

Indication of immediate medical attention and special treatment needed:

There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

Version 2

Print date: 12/12/2022

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Do not use solid water stream as it may scatter and spread fire.

Special hazards arising from the chemical:

Carbon monoxide (CO), phosphorous oxides (P_xO_y) and nitrogen oxides (NO_x).

Special protective actions for fire-fighters:

Fire may produce irritating or poisonous vapours (toxic fumes of carbon monoxide, phosphorous oxides and nitrogen oxides), mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

Environmental precautions:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Methods and materials for containment and cleaning up:

Procedure for spill

Remove all sources of flames and sparks. For small liquid spills, soak up with lime, damp earth or sand, or other noncombustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes, prolonged contact with skin, and inhalation of spray and fumes. Handle product with caution. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Remove clothing immediately if the herbicide gets inside. Then wash skin thoroughly using a nonabrasive soap and put on clean clothing. Operators should change and wash clothing after use. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Conditions for safe storage, including any incompatibilities:

Store in its original, labelled and closed container in dry, cool, shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Do not store with other pesticides, fertilizer, seeds, foodstuffs and water supplies. Store away from incompatible substances. Product is incompatible with galvanized steel or unlined mild steel. Keep out of reach of unauthorized persons, children and animals. Local regulations should be complied with.

Incompatible substances and mixtures: Refer to product label.

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

Version 2

Print date: 12/12/2022

Packaging material: HDPE plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Personal protective equipment:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

RESPIRATOR:

It is usually safe to use the product without a mask or respirator. If the product is used in dusty or confined conditions, a mask or respirator suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

CLOTHING:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

GLOVES:

Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

EYE PROTECTION:

Wear safety goggles or face shield.

EMERGENCY EYEWASH:

Where there is any possibility that an employee's eyes may be exposed to this substance the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.):	Liquid.
Odor:	Odourless
Odor threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapor pressure:	Not available.
Vapor density:	1.11 g/ml at 20°C
Relative density:	Not available.
Solubility(ies):	Miscible.

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

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Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.

10. STABILITY AND REACTIVITY

Reactivity:

Not available.

Chemical stability:

Considered stable for a period of 2 years in normal conditions.

Possibility of hazardous reactions:

Not available.

Conditions to avoid:

Not available.

Incompatible materials:

Product is relatively stable in neutral, weakly acidic and weakly alkaline media, but reacts strongly (and possibly violently) with strong alkalis. Mixing with other products may reduce the activity of glyphosate. Incompatible with galvanized steel and unlined mild steel materials for storage.

Hazardous decomposition products:

Not available.

11. TOXICOLOGICAL INFORMATION

Acute health effects:

Harmful if swallowed

May be harmful in contact with skin

May be harmful if inhaled

Causes mild skin irritation

Causes serious eye damage

May cause an allergic skin reaction

Numerical measures of toxicity:

Acute oral LD50:	900.8 mg/kg
Acute dermal LD50:	3792.5 mg/kg
Acute inhalation LC50:	5.29 mg/L
Skin irritation:	Category 3
Eye irritation:	Category 1
Skin sensitization:	Category 1
Respiratory sensitization	Category 1
Germ cell mutagenicity:	Not available
Carcinogenicity:	Category 2
Reproductive toxicity and Developmental toxicity:	Category 2

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

Version 2

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Specific target organ toxicity (single exposure):	Not available
Repeated dose toxicity and Specific target organ toxicity (repeated exposure):	Category 2
Aspiration hazard:	Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

TOXICITY TO FISH: LC50 (96h) Rainbow trout: 5.2 mg/l

TOXICITY TO DAPHNIA: EC50 (48h) Daphnia: 20 mg/l

TOXICITY TO ALGAE: EC50 (72h) Green algae: 0.03 mg/l

Persistence and degradability:

Stable in water and is not persistent in soil.

Bioaccumulative potential:

NO data available.

Mobility in the soil:

No data available.

Other adverse effects:

Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Safe handling of waste residues and disposal methods:

Pesticide Disposal:

Open dumping or burning of this pesticide is prohibited waste resulting from the use of this product that cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

Container Disposal:

Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration or by other procedures approved by state and local authorities.

14. TRANSPORT INFORMATION

UN Number: 3082

Road Transport ADR/IRD:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.N.O.

Maritime Transport IMDG/IMO:

Class: 9

Packaging group: III

SAFETY DATA SHEET : TYLLANEX EXTRA

Revision date: 25/04/2022

Version 2

Print date: 12/12/2022

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Marine Pollutant (Y/N): yes

Air transport IATA/ICAO:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.

Special/Environmental Precautions: None known.

15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and /or local laws.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

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