Country:	RSA, NAM, BOT, ZAM, MOZ	SDS Number:	000034
Language:	English	Issue Date:	2026-01-01
Version:	1	Print Date:	2026-02-10

Agro-Serve encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier	
Product form	Mixtures
Trade name	Axe-T
Registration Number	L11829
SDS Number	000034
1.2. Relevant identified uses of the substance or mixture and uses advised against	
1.2.1. Relevant identified uses	
Main use category	Tree and Shrub Killer.
Industrial/Professional use spec	Home and Garden.
Use of the substance/mixture	Selective weedkiller.
1.2.2. Uses advised against	See product label for restrictions.
1.3. Details of the supplier of the safety data sheet	
	Agro-Serve (Pty) Ltd 15 Diesel Road, Isando, 1600, South Africa PO Box 1189, Isando, 1600, South Africa
Telephone	+27 861 333 586 08h00 – 17h00 Monday to Friday
Email	info@efekto.co.za
Website	www.efekto.co.za

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Poisons Centre				
South Africa	Griffon Poisons Centre		082 446 8946	Dr Gerhard H Verdoorn
South Africa	Poisons Information Helpline		0861 555 777	
Spillage				
South Africa	Spill Tech		086 100 0366	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures	
	Oral Acute Tox.: Category 4: H302 Harmful if swallowed.
	Aspiration hazard: Category 1: H304 May be fatal if swallowed and enters airways.
	Eye Damage: Category 1: H318 Causes serious eye damage.
See Section 16 for the full text of the H statements declared above.	
See Section 11 for more detailed information on health effects and symptoms.	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
	
Hazard pictograms:	GHS05 GHS07 GHS08
Hazardous components which must be listed on the label:	• Triclopyr-2-butoxyethyl ester.
CLP Signal word:	**Danger**
Hazard statements:	H302: Harmful if swallowed.
	H304: May be fatal if swallowed and enters airways.
	H318: Causes serious eye damage.
Precautionary statements:	
Prevention Statements:	P264: Wash hands, forearms, and face thoroughly after handling
	P270: Do not eat, drink, or smoke when using this product.
	P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response Statements:	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
	P310: Immediately call a poison centre.
	P331: DO NOT induce vomiting.
Storage Statements:	P405: Store locked up.
Disposal Statement:	P501: Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
2.3. Other hazards	None known.

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Refer to section 11 for toxicological and section 12 for environmental information

SECTION 3: Composition/information on ingredients

3.1. Substances

	Emulsifiable Concentrate (EC)
	Biocidal product

3.2. Mixtures

Chemical Name	CAS-No.	EC – Number	Conc. % by weight	Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification	Warning Symbols
Triclopyr-2-butoxyethyl ester (Hazard classification of this material is based on the worst possible case)	64700-56-7	265-024-8	57.8 %	Acute Tox. 4: H302	
Calcium dodecylbenzene sulfonate (Hazard classification of this material is based on the worst possible case)	26264-06-2	247-557-8	< 10.0 %	Acute Tox. 4: H302 Skin Irrit. 2: H315 Eye Dam/Irr. 1: H318 Aquatic Chronic 4: H413	
Kerosene (Hazard classification of this material is based on the worst possible case)	8008-20-6	232-366-4	< 35.0 %	Asp. Tox. 1: H304	
Other ingredients (non-hazardous) to 100%		Balance		100 %	

Further information

For the full text of the Hazard statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice	When possible, have the product container or label with you when calling a poison control centre or doctor or going for treatment.
First-aid measures after inhalation	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask etc). Call a poison control centre or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.
First-aid measures after skin contact	Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.
First-aid measures after eye contact	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control centre or doctor for treatment advice. Suitable emergency eye wash facility should be available in work area.
First-aid measures after ingestion	Immediately call a poison control centre or doctor. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

4.3. Indication of any immediate medical attention and special treatment needed

Skin contact may aggravate preexisting dermatitis. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1. Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.1.2. Unsuitable	Water jet.

5.2. Special hazards arising from the substance or mixture

Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters	**Special protective equipment for fire-fighters**
	Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Consider feasibility of a controlled burn to minimize environment damage. Foam fire extinguishing

	system is preferred because uncontrolled water can spread possible contamination. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS. **Special protective equipment for firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.
5.3. Further information	
	In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
5.4. Flash point	
	64 °C

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Emergency procedures	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
	Do not allow to enter soil, waterways or wastewater canal.
6.3. Methods and material for containment and cleaning up	
For containment	Collect spillage.
Methods for cleaning up	For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Avoid raising dust. Collect waste in suitable containers, which can be labelled and sealed. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.
Other information	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.
Hygiene measures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Store in original container. Keep away from direct sunlight. Protect from freezing.
Storage stability	Storage duration: 24 Months
Storage temperature	>0°C <40°C
7.3. Specific end use(s)	
	Refer to the label and/or leaflet.

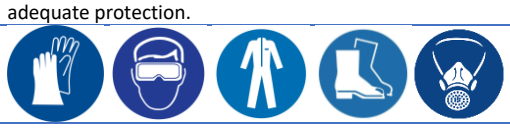
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

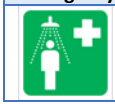
Components	CAS-No.	Exposure limit(s)	Type of exposure limit	Source
Triclopyr-2-butoxyethyl ester	64700-56-7	2 mg/m3	TWA	Dow IHG
Kerosene	112-05-0	200 mg/m3	TWA	ACGIH
Kerosene	112-05-0	100 mg/m3	TWA	Dow IHG

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

8.2. Exposure controls

8.2.1. Appropriate engineering controls	In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply. Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
8.2.2.1. Hand protection	Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
8.2.2.2. Eye protection	Safety glasses with side-shields (frame goggles) (e.g. EN 166).
8.2.2.3. Skin and body protection	Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before reuse, or use disposable equipment (suits, aprons, sleeves, boots, etc.) Wear as appropriate: impervious protective suit.
8.2.2.4. Respiratory protection	A combination gas, vapor and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.
	
8.2.2.5. General protective measures	Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.
8.2.3. Environmental exposure controls	Avoid release to the environment. For information regarding environmental exposure controls, see Section 6.

8.3. Additional emergency measures

Emergency measure	Emergency measure	Emergency measure	Emergency measure
	Emergency shower ISO 3864-1:2011, ISO 3864-4:2011		Eyewash stations ISO 3864-1:2011, ISO 3864-4:2011

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

1. Physical state	Liquid
2. Colour	Yellow
3. Odour	Gasoline-like
4. Odour threshold	No data available
5. Melting point / Freezing point	No data available
6. Boiling point or initial boiling point and boiling range	> 150 °C
7. Flammability	Combustible liquid
8. Lower and upper explosion limit	Not applicable
9. Flash point	64 °C
10. Auto ignition temperature	No data available
11. Decomposition temperature	No data available
12. pH	No data available
13. Kinematic viscosity	No data available
14. Solubility water	Completely miscible
15. Partition coefficient noctanol / water (log value)	No data available
16. Vapour pressure	No data available
17. Density Solubility	Not applicable

18. Relative density	1,08 at 25 °C
19. Particle characteristics	Not applicable
9.2. Other information	No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
10.4. Conditions to avoid	Extremes of temperature and direct sunlight. Incompatible materials for storage: galvanised steel, unlined mild steel.
10.5. Incompatible materials	Store only in the original container.
10.6. Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Triclopyr CAS No. 64700-56-7	
Acute toxicity:	
Acute Oral LD50 (rat-female)	577 mg/kg
Acute Dermal LD50 (rabbit):	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>256 ppm
Skin irritation/ corrosion	Non-irritating to the skin
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available
Calcium dodecylbenzene sulphonate CAS No. 26264-06-2	
Acute toxicity:	
Acute Oral LD50 (rat - male)	1300 mg/kg
Acute Dermal LD50 (rat):	2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	310 mg/m^3 air
Skin irritation/ corrosion	Adverse effect observed (irritating)
Eye damage / irritation	Adverse effect observed (irritating)
Respiratory or skin sensitization	No adverse effect observed (not irritating)
Germ cell mutagenicity	No data available
Carcinogenicity	No adverse effect observed
Reproductive toxicity	No adverse effect observed (negative)
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available
Kerosene CAS No. 8008-20-6	
Acute toxicity:	
Acute Oral LD50 (rat - male)	5000 mg/kg
Acute Dermal LD50 (rat):	2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	5.28 mg/L air
Skin irritation/ corrosion	Adverse effect observed (irritating)
Eye damage / irritation	No adverse effect observed (not irritating)
Respiratory or skin sensitization	No adverse effect observed (not sensitising)
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No adverse effect observed (negative)
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	Aspiration hazard
Further information	No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

Triclopyr CAS No. 64700-56-7	
Toxicity	

Aquatic Toxicity Fish LC50 (96 hr.) Aquatic Toxicity Daphnia LC50 (48 hr.) Toxicity to algae – static test ErC50 (96h)	117 mg/l Rainbow trout; 148 mg/l Bluegill sunfish 133 mg/l Daphnia 48 mg/l for green algae (Selenastrum capricornutum)
Toxicity to bees LD50 (contact)	Nontoxic to bees >100 µg/bee.
Birds Acute oral LD50 Birds Dietary LC50 (8d)	1698 mg/kg Mallard ducks >5000 mg/kg diet Mallard ducks, 2935 mg/kg Bobwhite quail and 3278 mg/k Japanese quail
12.2 Persistence and degradability	The main metabolite is 3,5,6-tricloro-2-methoxyperidine.
12.3 Bioaccumulation potential	No data available
12.4 Mobility in Soil	No data available
12.5 Result of PBT and vPvB assessment	No data available
12.6 Endocrine disrupting properties:	No data available
12.7 Other adverse effects	No data available
12.1 Toxicity	
Calcium dodecylbenzene sulphonate CAS No. 26264-06-2	
Aquatic Toxicity Fish LC_{50} (96 hr.) Aquatic Toxicity Daphnia semi static EC_{50} (96 hr.) Toxicity to algae – static test EC50 (96h) Toxicity to bacteria EC50 (3h)	1.74 -7.16 mg/l No data available 2.73 – 29 mg/l 500 – 723 mg/l
12.2 Persistence and degradability	No data available
12.3 Bioaccumulation potential	No data available
12.4 Mobility in Soil	No data available
12.5 Result of PBT and vPvB assessment	No data available
12.6 Endocrine disrupting properties:	No data available
12.7 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.
Contaminated packaging	Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / AND / RID				
ADR	**IMDG**	**IATA**	**ADN**	**RID**
14.1. UN number				
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2. UN proper shipping name				
Not classified as dangerous	Not classified as dangerous	Not classified as dangerous	Not classified as dangerous	Not classified as dangerous
Transport document description				
14.3. Transport hazard class(es)				
-	-	-	-	-
14.4. Packing group				
-	-	-	-	-
14.5. Environmental hazards				
No.	No.	No.	No.	No.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Registration No.	
This chemical is a registered pesticide product and is subject to certain labelling requirements under law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label.	
WHO-classification:	II (Moderately hazardous)
Classification according to GHS:	Cat. 3
HRAC Herbicide Group Code:	4
15.2. Chemical safety assessment	No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
Full text of H- and EUH-statements:			
H302	Harmful if swallowed.		

H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H413	Hazardous to the aquatic environment, long-term hazard		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Acute Tox. 4: H302	H302	Calculation method	
Asp. Tox. 1: H304	H304	Calculation method	
Eye Damage. 1: H318	H318	Calculation method	
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 1	Flammability - 1	Physical Hazard - 0	PPE -
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard			
Abbreviations and acronyms			
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; ECHA - European Chemicals Agency; EC-Number - European Community number; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative			
This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Agro-Serve (Pty) Ltd does not accept responsibility for damage caused by incorrect use of this information. **Training and related advice: This document contains important information to ensure the safe storage, handling of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to staff and that all necessary training has been given.** **This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.**			
Prepared BY: Nico Lionel van der Westhuis – Technical Support Specialist			
SDS EU (REACH Annex II) Update 1 January 2026			
End of Safety Data Sheet			