



SAFETY DATA SHEET

Trimax E

Section 1. Identification of the material and the supplier

Product: **Trimax E**
Product Use: Herbicide
Restriction of Use: Refer to Section 15

Supplier: **Agritech Bioscience (Pty) Ltd. t/a Carabiner**
Address: PO Box 1224
Isando, 1600
South Africa
TEL: 083 400 6056
www.carabiner.co.za

Emergency No: POISON CENTRE (UNITAS HOSPITAL) 012 664 1100
TYGERBERG 021 931 6129
RED CROSS 021 689 5227
RAPID SPILL RESPONSE 0800 775 3305
GRIFFON POISON CENTRE 082 446 8946

Date of SDS Preparation: 5 October 2022

Section 2. Hazards Identification

Classification of the substance or mixture

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Acute Toxicity Oral Category 4
Aspiration Toxicity Category 1
Skin irritation Category 2
Eye Damage Category 1
Germ Cell Mutagenicity Category 1B
Carcinogen Category 1B
Acute Aquatic toxicity Category 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Pictograms



Signal Word: **Danger**

Hazard statement(s)

H302: Harmful if swallowed
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation
H318: Causes serious eye damage
H340: May cause genetic defects
H350: May cause cancer
H400: Very toxic to aquatic life

Precautionary statement(s)

General:

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instruction.

Prevention:

P203 - Obtain, read, and follow all safety instructions before use.
P264 + P265 - Wash hands thoroughly after handling. Do not touch eyes.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response:

P301 + P316 - IF SWALLOWED: Get emergency medical help immediately.
P301 + P317 - IF SWALLOWED: Get medical help.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
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.
P321 - Specific treatment (see Section 4).
P330 - Rinse mouth.
P332+317 - If skin irritation occurs - Get medical help.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.

Storage:

P405 - Store locked up.

Disposal:

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

Supplemental Hazard Statements: none

2.3 Other

Other hazards

No other hazards known

Section 3. Composition / Information on Hazardous Ingredients

Mixture

Emulsion concentrate

Triclopyr (as butoxyethyl ester) 480 g/L

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Ingredients	Concentration of hazardous ingredient	CAS NUMBER.	Classification
Triclopyr as butoxy ethyl ester	>45%	64700-56-7	Acute Tox. Cat 4 Skin irrit. Cat 2 Aquatic Acute Cat. 1
Dodecylbenzene sulphonate salt	<5%	26264-06-2	Acute Tox. Cat 4 Skin Irrit. Cat 2 Eye Dam. Cat 1 Aquatic Chronic Cat 4
Light aromatic solvent	<27%	64742-95-6	Asp Tox. 1 Carc. 1B Muta. 1B
Other non-hazardous ingredients	To balance	-	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4. First Aid Measures

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Routes of Exposure:

If in Eyes Rinse eyes with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing while holding eyelids apart. Seek medical assistance immediately.

If on Skin Remove all contaminated clothing immediately. Rinse affected areas (skin) immediately with plenty of water/shower. Wash contaminated clothing before re-use. Seek medical assistance if irritation persists.

If Swallowed Never give anything by mouth to an unconscious person. Do not induce vomiting. Drink large quantities of water if able to do so. Maintain blood pressure and airway. Give oxygen if respiration is depressed. For advice, contact the National Poisons Centre. Seek medical assistance immediately and show this data sheet. Administration of gastric lavage or oxygen should be performed by qualified medical personnel.

If Inhaled Remove victim to fresh air. Keep patient calm. 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). Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms.

Treatment:

Treat according to symptoms (decontamination, vital functions No specific antidote known. Treat symptomatically and supportively. Danger of lung aspiration should be weighed against toxicity when considering emptying the stomach. 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. Fire Fighting Measures

Hazards from products	Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. In the event of fire, poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides may be released.
Suitable Extinguishing media	Small fires: Carbon dioxide, dry chemical foam or standard foam. Large fires: Fine water spray, foam, carbon dioxide. Do not use high volume water jet, due to contamination risk.
Recommended protective clothing & Precautions for firefighters	Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. If

	<p>the area is heavily exposed to fire, and if conditions permit, let the fire burn itself out since water may increase the area contaminated (on small fires). Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways. Do not extinguish the fire until the flow of product has been stopped. Keep upwind. Generating poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides. UNUSUAL FIRE OR EXPLOSION HAZARDS: Combustion products are toxic and/or irritant. Solvent vapours may travel to a source of ignition and create a flash back vapour explosion hazard indoors, outdoors, or in sewers.</p> <p>Full protective clothing and self-contained breathing apparatus.</p>
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Section 6. Accidental Release Measures

Personal precautions:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. For personal protection see Section 8.

Environmental precautions:

Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers, or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately. Do not discharge into the subsoil/soil.

Spill and Disposal procedures:

Cleaning procedure:

Wear protective clothing, eye protection, chemically resistant gloves and boots. Clear area of unprotected personnel. Spills may be slippery and should be cleaned up immediately. Remove all sources of flame and sparks. Contain and absorb liquid spills with inert material such as sand, soil, diatomaceous earth etc., remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in specially marked, tightly closing waste containers. Keep away from heat and sources of ignition. Wash area with water and detergent and absorb with further inert material. Heavily contaminated soil layers have to be dug out down to clean soil. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.

Waste Disposal: In accordance with local and national regulations. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Dispose of properly. Clean up affected area. Used absorbent material and washings should be stored in labelled, sealable containers until these can be disposed of according to local regulations. Open burning or dumping of this material is prohibited.

Container Disposal: Refer to the product label for instructions. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.

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

Precautions for Handling:

KEEP OUT OF REACH OF CHILDREN and animals. Do not smoke near handling and storage area. Avoid breathing vapour or mist. Keep away from food, feed and eating utensils. Avoid skin and eye contact and inhalation of spray mist. Use good personal hygiene. Avoid contact with clothing. Do not swallow. Keep the container closed. Use with adequate ventilation. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash hands and exposed skin before eating, drinking or smoking. After work, rinse gloves and remove protective equipment. Wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, or using the toilet. Wash contaminated clothing before re-use and separate from household laundry.

APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

Precautions for Storage:

Store in original container only in a well-ventilated, cool, dry, secure area away from children, foods and animal feeds. Protect from heat, moisture and direct sunlight. Store in the original container tightly closed and in a locked, dry, cool, well-ventilated storage area away from foodstuffs, fertilisers and seeds.

Keep away from children or uninformed persons. Avoid keeping product in extreme temperatures and direct sunlight. Avoid heat and sources of ignition. Avoid strong basic, acidic or oxidising materials.

Specific end use(s): Use only according to the label.

Section 8 Exposure Controls / Personal Protection

Occupational exposure limits:

Triclopyr: Dow AgroSciences IHG is 2 mg/m³ (skin).

Engineering Controls / Industrial Hygiene

Comply with occupational safety, environmental, fire and other applicable regulations.

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that

control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protection Equipment

Eyes	Safety goggles with side-shields. 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.
Hands	Use suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)). Contaminated gloves should be washed. Gloves should be disposed of when contaminated on the inside, perforated or contamination on the outside cannot be removed.
Skin	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure. Decontaminate contaminated clothing, remove and dispose of in accordance with the manufacturers instructions. Cotton overall buttoned to the neck and wrist. Washable hat.
Respiratory	Wear respiratory protection if ventilation is inadequate and when there is a potential to exceed the exposure limit requirements or guidelines. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be an effective type of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.
General	Females of childbearing age should not come into contact with the product. Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work. Suitable or appropriate respiratory and eye protection should also be worn. Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. For brief contact, no precautions other than clean body-covering clothing and impervious gloves should be needed.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Yellow to brown
Odour	Mild characteristic odour
Odour Threshold	No data available
pH	3-7 (1 % aqueous dilution)
Boiling/Melting Point	No data available
Freezing Point	No data available
Flash Point	No data available

Flammability	No data available
Upper and Lower Explosive Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Density	Approx. 1.2
Water Solubility	Emulsifies in water
Partition Coefficient:	No data available
Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Particle Characteristics	No data available
Surface tension	No data available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions. Stable for 24 months. Avoid exposure elevated temperatures. The generation of gas during decomposition can cause pressure in closed systems. The pressure build-up may be rapid. Avoid static discharge. Avoid strong basic, acidic or oxidising materials.
Possibility of hazardous reactions	None known.
Conditions to Avoid	Excessive heat, freezing, sunlight, open flames and heat.
Incompatible Materials	Strong oxidizing agents. Store only in the original container.
Hazardous Decomposition Products	No data available

Section 11 Toxicological Information

Acute Effects:

Oral	GHS: Acute Toxicity Oral Category 4
Dermal	GHS: Not classified
Inhalation	GHS: Not classified
Eye	GHS: Eye Damage Category 1
Skin	Skin Irritant Category 2

Chronic Effects:

Carcinogenicity	GHS: Carcinogenicity Category 1B
Reproductive Toxicity	GHS: Not classified
Germ Cell Mutagenicity	GHS: Germ Cell Mutagenicity Category 1B
Aspiration	GHS: Aspiration Tox. Category 1
STOT/SE	GHS: Not classified
STOT/RE	GHS: STOT RE Category 2

Section 12. Ecotoxicological Information

Ecological effects information	GHS: Aquatic Acute Category 1
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Precautions:	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved chemicals waste disposal facility. Spilled product cannot be re-used and must be disposed of. This product and its container must be disposed of by a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations. Do not dispose into, or allow contact with, municipal sewerage systems or open water bodies. Do not bury.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible. If containers cannot be recycled, they should be disposed of together with the waste chemical. Do not reuse empty containers. Empty containers retain product residue. Triple rinse, or equivalent, empty container, return rinse water to dilution mixture, and dispose of dilution mixture as a hazardous waste if it cannot be disposed of by use according to label instructions. Consult provincial environment ministry for advice on waste disposal. Industrial/commercial waste may be handled at licensed facilities only. Waste shipments must be securely packaged and properly labelled. Only licensed carriers may be used for transport. If recycling, close container and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and take to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal.

Special precautions during disposal:

Waste resulting from the use of this product 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. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and take to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal.

If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush, and store appropriately until it can be taken to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal.

Empty containers and product should not be burnt.

Section 14 Transport Information

Rail/road (RID/ADR):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr-2- butoxyethyl ester)
UN number	3082
Class	9
Packing group	III
Environm. Haz. Mark	Yes

Sea (IMDG code):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr-2- butoxyethyl ester)
UN number	3082
Class	9
Packing group	III
Marine pollutant	Yes

Air (ICAO/IATA):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr-2- butoxyethyl ester)
UN number	3082
Class	9
Packing group	III
Environm. Haz. Mark	Yes

Section 15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

Product Name: Trimax E
Date of SDS: 5 October 2022

For this product a chemical safety assessment was not carried out.

Section 16	Other Information
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Full text of H-Statements referred to under sections 2 and 3.

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

The information herein is given in good faith, but no warranty, express or implied is made.

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