

## Safety Data Sheet

### TRINITY EC - Reg. No: L 8362 (Act No 36 of 1947)

Date of issue: 30/10/2006

Date of revision: 28/06/2019

<b>1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.</b>	
<b>Product name:</b>	TRINITY EC
<b>Other means of identification:</b>	Tralkoxydim 100 g/L EC
<b>UN number:</b>	1993
<b>Recommended use:</b>	Herbicide
<b>Restrictions on use:</b>	Agriculture
<b>Distributed by:</b>	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 <a href="http://www.agritech.co.za">www.agritech.co.za</a>
<b>Emergency Number:</b>	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
<b>Chemical Name:</b>	Tralkoxydim: 2-[1-(ethoxyimino)propyl]-3-hydroxy-5-(2,4,6-trimethylphenyl) cyclohex-2-enone
<b>2) Classification of the substance / mixture:</b>	
<b>Classification of the product:</b>	Xn; R22; R65 Full text of symbols and R-phrases: see section 15.
<b>Label elements:</b>	Hazard symbols:  Signal word: <b>WARNING</b> Full text of symbols: see section 15.
<b>Health effects: eyes:</b>	May cause irritation.
<b>Health effects: skin:</b>	May cause irritation.
<b>Health effects: ingestion</b>	May be harmful
<b>Health effects: inhalation</b>	Unlikely to cause harmful effects under normal conditions and use.
<b>Health effects: Other</b>	No data available

**3) COMPOSITION / INFORMATION ON INGREDIENTS:**

Mixture:

Chemical name	% composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Tralkoxydim	100	87820-88-0		Acute Tox. 4, H302 Carc. 2, H351 Aquatic Chronic 2, H411	
Aromatic Solvent	>600	64742-94-5	265-198-5	Asp. Tox. 1, H304	Xn; R65

Full text of R- and S-phrases: see section 15.

**4) First Aid Measures:**

<b>Eye contact:</b>	Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. Call a doctor for treatment advice. Obtain medical attention immediately if irritation persists.
<b>Skin contact:</b>	Immediately remove contaminated clothing and flush body and clothes with large amounts of water. Wash thoroughly with soap and water (including hair, skin and fingernails) Wash contaminated clothing before re-use. Seek medical assistance if irritation persists. Persons providing first aid must wear gloves to avoid self-contamination.
<b>Ingestion:</b>	If the product has been ingested, induce vomiting provided the patient is conscious. Vomiting should be supervised by a physician because of possible pulmonary damage by aspiration of the solvent. Get medical attention immediately. Administer a large quantity of activated medical charcoal.
<b>Inhalation:</b>	Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is laboured, give oxygen. <b>Obtain immediate medical attention.</b>
<b>Most important symptoms and effects, acute and delayed:</b>	None known
<b>Indication of immediate medical attention and special treatment needed: Advice to physician</b>	There is no specific antidote if this product is ingested. Treat symptomatically. Medical Conditions Known to Be Aggravated: Asthma or other respiratory conditions aggravated by chemical irritants.

**5) Fire-Fighting Measures:**

<b>Suitable extinguishing media:</b>	Use foam, carbon dioxide, dry powder, water mist or fog (avoid water jet) or halon extinguishant.
<b>Unsuitable extinguishing media:</b>	Avoid the use of a solid water stream as this may cause spreading.
<b>Special hazards arising from the substance or mixture:</b>	Combustible liquid. Like all combustible liquids it can ignite, burn and form explosive mixtures with air if not handled correctly. Mixtures of powder in air with flammable solvent vapours should be avoided. The product will burn vigorously with flames and can be a fire hazard. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion



	DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.
7) Handling & Storage:	
Handling:	KEEP OUT OF REACH OF CHILDREN and animals. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. 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. Keep containers closed when not in use. Keep product, wash or rinse water, and contaminated materials out of water, away from crops, and away from access by people, animals and birds. Avoid breathing dust, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, drinking, or handling tobacco. This product is intended for use outdoors where engineering controls are not necessary. If necessary, ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV. Warehouses, production area, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities. Do not eat, drink, handle tobacco, or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.
Storage:	Store in original container only in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose containers to temperatures above 40 °C. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.  Do not store or process at temperatures above 50 °C. Do not expose to high temperatures or sources of heat, including sunlight and steam lines.
8) Exposure Control / Personal Protection:	
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.  <u>PERSONAL PROTECTIVE EQUIPMENT:</u>	
Clothing:	Consult supplier to confirm that the equipment is suitable.  Consult supplier to confirm that the equipment is suitable. Chemically resistant (such as nitrile or butyl) overalls, socks and chemically resistant footwear.
Gloves:	Elbow length chemically resistant (such as nitrile or butyl) gloves.
Eye protection:	The use of safety goggles with side shields is recommended.
Respiratory protection:	Not normally required. If inhalation is likely, an approved respirator should be worn
Emergency eye wash:	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 & Chemical Properties:	
<b>Form:</b>	Liquid
<b>Colour:</b>	Amber
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	No data available
<b>pH:</b>	6.5 (1% dilution in deionized water).
<b>Melting point / Freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point:</b>	± 80 °C
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas)</b>	Combustible liquid
<b>Upper/ lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Solubility(ies)</b>	Emulsifiable in water
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
10) Stability & Reactivity:	
<b>Reactivity:</b>	No data available.
<b>Chemical stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
<b>Hazardous decomposition product(s):</b>	Energetically decomposes at approximately 100°C (212°F). During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
<b>Conditions to avoid:</b>	Avoid excessive heat and moisture.
<b>Incompatible materials:</b>	No data available
11) Toxicological Information:	
<p>Acute:</p> <p>Oral LD50            &gt; 5 000 mg/kg, rat, practically non-toxic.</p> <p>Dermal LD50        &gt;2 000mg/kg, slightly toxic.</p> <p>Inhalation LC50 (4h): &gt;3.7 mg/L air , rat, practically non-toxic.</p> <p>Skin irritation        : Slight irritant, rabbit</p> <p>Eye irritation        : Slight irritant, rabbit</p> <p>Sensitisation        : Not a Sensitizer (Guinea Pig).</p> <p>Other                 : No data available.</p>	
12) Ecological Information:	

**Information below based on active ingredient:**

**Bees:** LC50/EC50 > 100 µg/bee

**Birds:** Mallard Duck: Oral LD50 > 3,020 ppm, (8-day dietary – Bobwhite Quail): LC50/EC50 6,237 ppm Birds (8-day dietary - Mallard Duck): LC /EC > 7,400 ppm

**Fish :** (Rainbow Trout): LC50/EC50 (96 hour) > 7.2 ppm, (Bluegill): LC50/EC50 (96 hour) > 6.1 ppm, (Mirror Carp): LC50/EC50 (96 hour) > 8.2 ppm

**Algae :** EC50 (5 Day) 7.6 ppm

**Worms:** No data available.

**Other aquatic species:** Toxic to *Daphnia magna*, LC50 (48 h) 0.53 µg/l.

**Environmental fate:**

Soil/Environment: Degrades rapidly in lab soil studies; typical DT50 2-5 d (aerobic), 3 w (flooded soil). Primary metabolites are in turn extensively degraded; within 30 dat, up to 44% of applied radioactivity is liberated as CO<sub>2</sub>. Degradation is primarily microbial, but soil surface photolysis, aqueous photolysis and hydrolysis all occur. Field data are consistent with these results. The Koc of 30-300 predicts relatively strong binding; however, rapid degradation ensures that there is no significant movement of either tralkoxydim or its degradates down the soil profile.

**13) Disposal Considerations:**

**Waste Disposal :** In accordance with local and national regulations. 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 waste disposal facility.

**Container Disposal :** Refer to the product label for instructions.

Container Refilling and Disposal:

If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.

DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE, perforate and flatten.

Do not transport if this container is damaged or leaking.

**14) Transportation Information:**

UN NUMBER: 1993

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: Flammable liquids, n.o.s.

Maritime Transport IMDG / IMO:

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: Flammable liquids, n.o.s.

**15) Regulatory Information:**

**Symbols:** Xn – Harmful

**Risk – Phrase:**

R22 - Harmful if swallowed.

R65 - Harmful: may cause lung damage if swallowed.

**Safety – Phrase:**

S1/2 - Keep locked up and out of the reach of children.

- S13 - Keep away from food, drink and animal feeding stuffs.
- S20 - When using, do not eat or drink.
- S23 - Do not breathe fumes or vapour.
- S24 - Avoid contact with skin.
- S46 - If swallowed, contact a doctor or Poisons Information Centre immediately and show this container or label.
- S24/25 - Avoid contact with skin and eyes.
- S36/37 - Wear suitable protective clothing and gloves.
- S60 - This material and its container must be disposed of as hazardous waste.
- S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.
- S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### **Hazard Statements**

- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H351 - Suspected of causing cancer.

#### **16. Other Information**

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

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