


Safety Data Sheet

TEBUROX - Reg. No: L 9658 (Act No 36 of 1947)

Date of issue: July 2013
Date revised: January 2020

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	TEBUROX
Other means of identification:	Tebuthiuron 500 g/L
UN Number:	3082
Recommended Use:	Herbicide
Restrictions on use:	Agriculture
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 011 8223494 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	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
Chemical Name:	1-(5- <i>tert</i> -butyl-1,3,4-thiadiazol-2-yl)-1,3-dimethylurea
2) CLASSIFICATION OF THE SUBSTANCE / MIXTURE:	
Classification of the product:	Classification according to Regulation EC 1272/2008 (CLP) Acute Tox. Cat: 4 (H302) Aquatic Acute Cat:1 (H400) Aquatic Chronic 1, H410 Full text of R-phrases; see section 15
Label elements:	Hazard Symbol(S)  Signal Word: Harmful Hazard Statement (S) H227: Combustible liquid H317: May cause an allergic skin reaction. H410: Very toxic to aquatic life with long lasting effects. Precautionary Statement(S)

	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves. P302+P352: IF ON SKIN: Wash with plenty of water. P362+P364: Take off contaminated clothing and wash it before reuse. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P321: Specific treatment (see on this label). P391: Collect spillage. P501: Dispose of contents/container in accordance with local/regional/national regulations.				
Health effects: eyes:	Irritating to eyes.				
Health effects: skin:	Irritating to skin .				
Health effects: ingestion	Toxic if ingested in large amounts.				
Health effects: inhalation	No information 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
Tebuthiuron	50%	34014-18-1	251-793-7	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Xn; R22 N; R50-53
Inerts	Up to 100%				
4) First Aid Measures:					
Inhalation:	Remove victim to fresh air. Keep patient calm. Monitor for respiratory distress. If a cough or breathing difficulty develops, evaluate for respiratory tract irritation, bronchitis or pneumonitis. Seek medical attention if irritation develops or persists.				
Skin contact:	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.				
Eye contact:	Flush eyes with plenty of clean, room temperature 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. If irritation, pain, swelling, lacrimation, or photophobia persists after 15 minutes of irrigation, an ophyjamologic examination must be performed.				
Ingestion	Seek medical attention. Do not induce vomiting. Never induce vomiting or give anything by mouth to a victim who is unconscious or is having convulsions. <u>There is no specific antidote if this product is ingested. Treat symptomatically (decontamination, vital functions).</u>				

<p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Respiratory protection:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Emergency eye wash:</p>	<p>or smoke at the place of work. Wash hands and/or face before breaks and at the end of the shift.</p> <p>Consult supplier to confirm that the equipment is suitable.</p> <p>The employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this product.</p> <p>An approved respirator suitable for protection from dusts and mists of pesticides is adequate. The limitations of the respirator as specified by the approving agency and the manufacturer must be observed.</p> <p>Suitable synthetic chemically resistant gloves.</p> <p>Safety goggles with side shields, or face shield.</p> <p>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.</p>
<p>9) PHYSICAL & CHEMICAL PROPERTIES:</p>	
<p>Form:</p> <p>Colour:</p> <p>Odour:</p> <p>Solubility:</p> <p>pH:</p> <p>Flash point:</p> <p>Initial boiling point and boiling range</p> <p>Flash point:</p> <p>Evaporation rate:</p> <p>Flammability (solid, gas)</p> <p>Upper/ lower flammability or explosive limits:</p> <p>Vapour pressure:</p> <p>Vapour density:</p> <p>Relative density:</p> <p>Solubility: Suspends in water</p> <p>Partition coefficient: n-octanol/water No data available</p> <p>Auto-ignition temperature: No data available</p> <p>Viscosity</p>	<p>Liquid</p> <p>White</p> <p>Characteristic</p> <p>Suspends in water</p> <p>8.1</p> <p>Not Flammable</p> <p>No data available</p> <p>Not flammable</p> <p>No data available</p> <p>No flammable</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>Suspends in water</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
<p>10) STABILITY & REACTIVITY:</p>	
<p>Reactivity:</p> <p>Chemical Stability:</p> <p>Hazardous decomposition product(s):</p> <p>Conditions to avoid:</p> <p>Incompatible materials:</p>	<p>Not reactive under normal conditions.</p> <p>Stable under normal use and standard conditions. Stable for 24 months. Stable in aqueous media between pH 5 and 9. Hydrolysed at higher temperatures by strong alkalis and strong acids.</p> <p>No decomposition if stored and handled as indicated. Thermal decomposition may release toxic oxides of carbon, nitrogen and sulphur.</p> <p>No hazardous reactions known. Excessive heat and freezing temperature</p> <p>None known.</p>

11) TOXICOLOGICAL INFORMATION:

Acute

Ingestion : Oral LD50 (Rat): > 1000 mg/kg

Dermal : LD50 (Rat): > 3000 mg/kg

Inhalation : LC50 (Rat, 4 hours) (Technical material): LC50 for rats 3.696 mg/l.

Eye Contact : Eye irritant

Skin Contact : Skin irritant

Skin Sensitization: Not a Sensitizer (Guinea Pig).

12) ECOLOGICAL INFORMATION:

Information below based on technical material: TEBUTHIURON

Birds : Acute oral LD50 for chickens, bobwhite quail, and mallard ducks >500 mg/kg. In 1 mo feeding trials, chickens receiving 1000 mg/kg showed no ill-effects.

Bees : LD50 >100 µg/bee

Fish : LC50 (96 h) for rainbow trout 144, goldfish and fathead minnows >160, bluegill sunfish 112 mg/l. Daphnia: LC50 297 ppm

Algae : EC50 for *Anabaena* 4.06, *Navicula* 0.081, *Selenastrum* 0.05, *Skeletonema* 0.05 ppm.

Environments fate

Persistence and degradation:

Tebuthiuron is a highly active, non-selective herbicide that works via root-uptake in plants. Small quantities of tebuthiuron in contact with the roots of desirable vegetation will result in severe injury or death of these plants. Do not contaminate water sources by disposing of waste or equipment wash water.

Some microbial breakdown occurs in soil, but this is not the predominant mode of degradation. Loss due to photodecomposition and volatilisation is negligible. Half-life in soil is considerably greater in soils with low moisture content, and in high organic soils. Adsorption Freundlich K values range from 0.11 in sand (pH 7.7, o.m. 0.5%) to 1.82 in clay loam (pH 6.9, o.m. 2.0%).

13) DISPOSAL CONSIDERATIONS:

Waste Disposal :

Contaminated absorbents, used containers, surplus product etc. should be burnt at > 1000 °C in an incinerator, preferable designed for pesticide disposal. In the case where no incinerator is available, hydrolysis under alkaline conditions is a suitable method of disposal of small quantities of the product. Prior to disposal of the resultant waste, the material must be analysed in order to ensure that the active ingredient has been degraded to a safe level. Treated waste must be buried in an approved landfill. **Never** pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into the water systems. Disposal of waste must be done in compliance with local legislation. Spilled product cannot be re-used and must be disposed of.

Container Disposal :

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. Dispose of empty containers in accordance with local regulations. 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. Combustible containers should be disposed of in approved pesticide incinerators. Non-combustible containers must first be triple-rinsed with water.

14) TRANSPORTATION INFORMATION:

UN NUMBER: **3082**

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: Environmentally hazardous substance, liquid N.O.S (Tebuthiuron).

Maritime Transport IMDG / IMO:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: Environmentally hazardous substance, liquid N.O.S (Tebuthiuron).

Air transport: ICAO/IATA

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: Environmentally hazardous substance, liquid N.O.S (Tebuthiuron).

15) REGULATORY INFORMATION:

Symbol(s): Xn, N



Indication of Danger: Xn – Harmful.

: N – Environmentally Hazardous Substance

R-phrases:

- R22 – Harmful if swallowed.
- R36/37 – Irritating to eyes and respiratory system
- R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases:

- S2 – Keep out of reach of children.
- S13 – Keep away from food, drink and animal feeding stuffs.
- S20 – When using, do not eat or drink.
- S24/25 – Avoid contact with skin and eyes.
- S36/37 – Wear suitable protective clothing and gloves.
- S45 – In case of an accident or if you feel unwell, seek for medical advice
- S46 – If swallowed, contact a doctor or Poisons Information Centre immediately and show this container or label.
- S60 – This material and its container must be disposed of as hazardous waste.
- S61 – Avoid release to the environment. Refer to special instructions or the Safety data sheet.

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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