

Safety Data Sheet

KABUTO - Reg. No: L 8604 (Act No 36 of 1947)

Date of issue: 22/09/2010

Date of revision: 26/06/2019

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	KABUTO
Other means of identification:	Buprofezin 500 g/L SC
UN number:	3082
Recommended use:	Insecticide
Restrictions on use:	No information available
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	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
Chemical Name:	(Z)-2- <i>tert</i> -butylimino-3-isopropyl-5-phenyl-1,3,5thiadiazinan-4-one
2) Classification of the substance / mixture:	
Classification of the product:	N; Xn; Xi; R20/21/22, R36/38, R51/53 Full text of symbols and R-phrases: see section 15.
Label elements:	Hazard symbols: N – Dangerous for the environment Xi – Irritant Xn - Harmful  Signal word:
Health effects: eyes:	May cause irritation.
Health effects: skin:	May cause irritation and may be harmful.
Health effects: ingestion	May cause irritation and may be harmful.
Health effects: inhalation	May cause irritation.

Health effects: Other	No data available
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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
Buprofezin	50%	69327-76-0	614-948-3	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	N Xi Xn

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

4) First Aid Measures:

Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance should irritation persist
Skin contact:	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance should irritation persist
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. One or two glasses of water may be given. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Inhalation:	Remove patient to fresh air. Lie down and keep warm and rested. Seek medical assistance should irritation persist.
Most important symptoms and effects, acute and delayed:	None known
Indication of immediate medical attention and special treatment needed: Advice to physician	No known specific antidote. Treat symptomatically.

5) Fire-Fighting Measures:

Suitable extinguishing media:	Make use of water, foam, dry chemical, or carbon dioxide to extinguish fires.
Unsuitable extinguishing media:	Water jet, due to contamination risk
Special hazards arising from the substance or mixture:	Generating poisonous and corrosive fumes containing: Carbon monoxide, hydrogen fluoride and nitrogen oxides may be released during fire.
Fire-fighting:	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. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.
Protective clothing:	Full protective clothing and self-contained breathing apparatus

6) Accidental Release Measures:	
<p>Personal precautions:</p> <p>Environmental precautions:</p> <p>Cleaning procedure:</p> <p>Disposal:</p>	<p>Avoid contact with skin and eyes. Do not breathe in spray or fumes. Ensure adequate ventilation. Keep away from sparks, open flame and direct sunlight. For personal protection see Section 8</p> <p>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.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste containers. Wash area with water and detergent and absorb with further inert material. 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.</p> <p>Waste Disposal:</p> <p>In accordance with local and national regulations. Do not contaminate water, food or feed by disposal. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility.</p> <p>Container Disposal: Refer to the product label for instructions.</p> <p>If containers cannot be recycled, they should be disposed of together with the waste chemical. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.</p>
7) Handling & Storage:	
<p>Handling:</p> <p>Storage:</p>	<p>Avoid skin and eye contact and inhalation of spray mist. Keep away from heat. Hygiene measures: Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. 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. Spills may be slippery and should be cleaned up immediately.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>Store in original container tightly closed and in an isolated, locked, dry, cool area, well-ventilated area away from foodstuffs, fertilisers, seeds, children, animals, unauthorised persons and sources of ignition. Protect from extreme temperatures. Keep out if reach of children. Protect from temperatures above 40 °C</p>
8) Exposure Control / Personal Protection:	
<p>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.</p> <p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Wash contaminated</p>

	<p>clothing before re-use. Respiratory protection: Wear if ventilation is inadequate. Use particle filter with medium efficiency for solid and liquid particles.</p>
Gloves:	Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance
Eye protection:	The use of safety goggles with side shields is recommended.
Respiratory protection:	Wear suitable respiratory equipment, especially during spraying, such as a face mask. 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.
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:

Form:	Liquid
Colour:	Off-white
Odour:	Characteristic
Odour threshold:	No data available
pH:	6.5
Melting point / Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point:	Moderately flammable
Evaporation rate:	No data available
Flammability (solid, gas)	Not flammable
Upper/ lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility(ies)	Suspends in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature:	No data available
Viscosity:	No data available

10) Stability & Reactivity:

Reactivity:	Not available.
Chemical stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Hazardous decomposition product(s):	Carbon monoxide, hydrogen fluoride and nitrogen oxides may be released during fire.
Conditions to avoid:	Protect from high temperatures and direct sunlight.
Incompatible materials:	No data available

11) Toxicological Information:

Acute:

Oral LD50 > 2 000 mg/kg, rat

Dermal LD50 >5 000mg/kg, rat

Inhalation LC50 (4h): >4.5 mg/L , rat

Skin irritation : Mild skin irritant (guinea pigs); Not irritating to skin in rabbits.

Eye irritation : May cause light, temporary, eye irritation. Not irritating to eyes in rabbits.

Sensitisation : Not a skin sensitiser (guinea pigs).

Other : N/A

12) Ecological Information:

Information below based on active ingredient:

Bees: N/A.

Birds: LD50 Bobwhite quail > 2000 mg/kg.

Fish : LC50 carp *Cyprinus carpio* 2,7mg/L, Rainbow trout *Oncorhynchus mykiss* >1,4mg/L.

Algae : E_bC₅₀ (72 h) *Pseudokirchneriella subcapitata* >2 mg/L

Worms: LC50 (14d) N/A

Other aquatic species: Toxic to *Daphnia magna*, EC50 50 mg/L.

Persistence: DT₅₀ (25°C) 104 days, flooded conditions, silty clay loam, 80 days sandy loam.

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.

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

DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

Do not transport if this container is damaged or leaking.

14) Transportation Information:

UN Number: 3082

Road transport ADR/RID

Class: 9

Packaging group: III Labelling

no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (buprofezin)

Air transport: ICAO / IATA

Class: 9

Packaging group: III Labelling

no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (buprofezin)

Maritime transport: IMDG

Class: 9

Packaging group: III

Labelling no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (buprofezin)

15) Regulatory Information:

Symbols: X_n – Harmful

N - Dangerous for the environment

Xi - Irritant

Risk – Phrase:

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R36/38 - Irritating to eyes and skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety – Phrase:

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

S13 - Keep away from food, drink and animal feeding stuffs.

S20/21 - When using, do not eat, drink or smoke.

S24/25 - Avoid contact with the skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection S38 In case of insufficient Ventilation, wear suitable respiratory equipment.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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.

Hazard Statements:

H373 - May cause damage to organs through prolonged or repeated exposure (Not specified)

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long-lasting effects.

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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