

Safety Data Sheet

VETO PLUS - Reg. No: L 9776 (Act No 36 of 1947)

Date of issue: 08/06/2015

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	VETO PLUS
UN No:	1993
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 083 400 6056 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:	5-butyl-2-ethylamino-6-methylpyrimidin-4-yl dimethylsulfamate. (RS)-2-(2,4-dichlorophenyl)-1-(1H-1,2,4-triazol-1yl)hexan-2-ol.
2) Hazards Identification:	
Health effects: eyes:	May cause irritation
Health effects: skin:	May cause irritation
Health effects: ingestion	Harmful if swallowed
Health effects: inhalation	May cause damage.
3) Composition Details:	
COMPOSITION	25% Bupirimate 30% Hexaconazole Approximately 480 g/L Solvesso 150
4) First aid measures	
Product in eyes:	Should irritation occur, rinse immediately with large amounts of clean water. Seek medical assistance.
Product on skin:	Carefully remove contaminated clothing and decontaminate before reuse. Wash affected area with soap and water for 15 minutes. Seek medical aid if irritation persists.
Product ingested:	Wash out mouth with water if victim is able, alert and conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting. Keep patient at rest. Seek medical assistance. If vomiting occurs, keep the head lower than hips to prevent aspiration.
Product inhaled:	Remove the victim to fresh air. Keep the victim warm and at rest. If breathing stops, administer artificial respiration. Seek medical assistance.

Note to physician:	Treat symptomatically and supportively. If gastric lavage is performed: endotracheal control and / or esophagoscopy is recommended. The administration of activated charcoal is also recommended.
5) Fire-Fighting Measures:	
Flash point: Extinguishing media: Specific fire fighting methods	36° C Product is flammable. Small fires: Foam, dry chemical, or carbon dioxide. Large fires: water fog or alcohol resistant foam. Try to contain spills, minimise spillage entering drains or water courses. Water spray may be used for the cooling of unaffected stock. Avoid the use of a solid water stream as this may cause spreading. Remove spectators from the surrounding area. Isolate the affected area and evacuate downwind. Keep upwind. Use the appropriate type of extinguisher for the type of surrounding fire. Fight the fire from the maximum distance using an unmanned hose holder or monitor hoses. Keep containers cool by spraying with water. Contain run off to prevent entry into water or drainage systems. Avoid inhaling hazardous vapours and fumes from the burning materials. Remove unaffected containers from the fire area if possible and if safe to do so. Use as little water as possible. Dyke the fire control water for later disposal. Avoid the accumulation of polluted run-off from the site of the incident.
Special hazards:	Fire may produce irritating or poisonous vapours (carbon monoxide, smoke, nitrogen oxides, and partly oxidised hydrocarbon fragments), mists or other hazardous products of combustion.
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	
Personal precautions: Environmental precautions: Occupational spill:	Avoid skin and eye contact. Do not breathe in the spray or fumes. For personal protection see Section 8 Do not allow this product to enter drains or watercourses. Any spillages or uncontrolled discharges into any watercourses or public waters must be reported immediately to the police and to the Department of Water / Environmental Affairs. Considered to be a marine pollutant. Wear protective clothing. Clear area of unprotected personnel and keep unprotected personnel upwind. Recover the free liquid with explosion proof pumps, Contain and absorb spills with inert material such as clay, dirt, sand or other suitable non-combustible absorbent material. Use an approved industrial vacuum cleaner for removal and place in suitable, dry and properly labelled waste containers. Wash area with water and detergent and absorb with further inert material. If the potential for fire exists, blanket the spill with foam as a precaution. If the product comes into contact with water, contain the contaminated water for later disposal. Prevent the material from spreading by damming in with an absorptive material. Do not flush the spilled material into the drains. If spill does enter waterways contact the local authority. Dispose of this material and its container at a hazardous or special waste collection point.
7) Handling & Storage:	

<p>Handling and storage:</p> <p>Handling</p> <p>Storage</p>	<p>Harmful if inhaled or swallowed and irritating to the eyes and skin. Avoid contact with eyes and skin and avoid inhalation of the spray and vapour. Use with adequate ventilation. Wash hands before eating, drinking, smoking, chewing gum, or using the toilet. Operators should change and wash clothing each day. Immediately remove clothing of this product gets inside. Thereafter, wash the skin thoroughly with a non-abrasive soap and water and put on clean clothing. Do not apply directly to any areas where surface water is present, or to intertidal below the mean high water mark. Any water used to clean equipment must be disposed of correctly in order to avoid contamination. When transferring more than 5 Litres of this product, ground the container before handling in order to prevent static discharge (which may cause ignition). Do not cut, drill, weld or grind anywhere on or near this container.</p> <p>Store in accordance with local regulations. Store in the original, tightly closed container in an isolated, cool (<37°C), dry, well-ventilated area away from sources of ignition and of heat. Keep under lock and key out of reach of children, unauthorised persons and animals. Keep away from food, drink and animal feeds. Bupirimate is rapidly decomposed by U.V irradiation in aqueous solutions. Protect from direct sunlight and from frost.</p>
<p>8) Exposure Control / Personal Protection:</p>	
<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> Clothing:</p> <p>Respiratory protection:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Emergency eye wash:</p>	<p>Employee must wear appropriate protective (impervious) clothing, boots and equipment in order to prevent repeated or prolonged skin contact with this substance.</p> <p>An approved respirator suitable for protection from mists of pesticides should be worn. The limitations of the respirator use as specified by the approval agency and the manufacturer must be observed.</p> <p>The employee must wear appropriate synthetic protective gloves.</p> <p>Safety goggles or a face shield are recommended.</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>Appearance:</p>	<p>Light tan liquid</p>
<p>Colour:</p>	<p>Light tan</p>
<p>Odour:</p>	<p>Characteristic</p>
<p>Density:</p>	<p>1.01 g/cm³</p>
<p>PH:</p>	<p>6.3</p>
<p>Solubility:</p>	<p>Emulsifies in water.</p>

10) Stability & Reactivity:**Stability**

Stable for 2 years under normal conditions.

Hazardous decomposition product (s)

Fire may produce harmful products of combustion such as carbon dioxide and (if combustion is complete) carbon monoxide and smoke.
Nitrogen, compounds of nitrogen and, under certain circumstances, nitrogen oxides.
Sulphur oxides (where sulphur dioxide is a respiratory hazard) and compounds of sulphur.

11) Toxicological Information:**Acute and chronic health hazards**

Oral : LD₅₀ >300 mg/kg for rats. (formulation)

Dermal : LD₅₀ >3000 ml/kg (formulation).

Inhalation : Slight toxicity. Unlikely to cause harmful effects under normal conditions of handling and use. **Skin irritation**: Moderate to severe irritant.

Eye irritation : Severe irritant

Sensitization : Mild skin sensitizer (guinea pigs).

12) Ecological Information: Based on technical materials**Bees:**

Bupirimate: NOEL: (oral) 0.20 mg/bee; (contact) 0.050 mg/bee.

Hexaconazole: Acute oral and contact LD₅₀ for honeybees >0.1 mg/bee

Birds:

Bupirimate: Acute oral LD₅₀ for quail >5200, pigeons >2700 mg/kg. Oral LC₅₀ (5 d) for bobwhite quail and mallard ducks >10 000 mg/kg.

Hexaconazole: Acute oral LD₅₀ for mallard ducks >4000 mg/kg.

Fish:

Bupirimate: LC₅₀ (96 h) for rainbow trout 1.4 mg/l.

Hexaconazole: LC₅₀ (96 h) for rainbow trout: 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/L.

Daphnia:

Bupirimate: LC₅₀ (48 h) 7.3 mg/l

Hexaconazole: LC₅₀ (48 h) 2. mg/l

Persistence/Degradability

Data given in this section are for the active ingredient:

Bupirimate

Soil/Environment In soil, the major degradation product is ethirimol. Soil DT₅₀ 35–90 d (non-sterile flooded or non-flooded soils, pH 5.1–7.3).

Hexaconazole:

Soil/Environment. Rapidly degraded in soils in laboratory tests.

Bio-accumulation

Data given in this section are for the active ingredient:

Bupirimate

Animals: In mammals, following oral administration, 68% of the dose is eliminated in the urine within 24 hours; 77% is eliminated in the urine and 21% in the faeces within 10 days.

Hexaconazole

Readily excreted by mammals, with no significant retention in organs or tissues.

13) Disposal considerations:

Waste Disposal :

In accordance with local and national regulations. Open dumping or burning of this product is prohibited.

Waste generated from the use of this product cannot be reused or re-processed.

Never pour untreated waste or surplus products into public sewers or where there is a danger of run-off or seepage into any water systems.

Do not contaminate rivers, dams or other water sources with the product or used containers.

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 :

In accordance with local and national regulations. Empty containers retain vapour and product residues.

Refer to the product label for instructions. Triple rinse the empty containers.

Do not re-use the empty container for any other purpose. Empty containers must be destroyed by perforation and flattening and then buried in an approved dump site. Prevent contamination of food, feedstuffs, water and eating utensils.

14) Transportation Information:

UN NUMBER: 1993

ROAD TRANSPORT (ADR/IRD):

CLASS: 3

PACKAGING GROUP: III

SHIPPING NAME: FLAMMABLE, LIQUID. N.O.S. (SOLVENTS, BUPIRIMATE, HEXACONAZOLE)

MARITIME TRANSPORT (IMDG/IMO):

CLASS: 3

PACKAGING GROUP: III

SHIPPING NAME: FLAMMABLE, LIQUID. N.O.S. (SOLVENTS, BUPIRIMATE, HEXACONAZOLE))

AIR TRANSPORT (ICAO/IATA):

CLASS: 3.3

PACKAGING GROUP: III

SHIPPING NAME: FLAMMABLE, LIQUID. N.O.S. (SOLVENTS, BUPIRIMATE, HEXACONAZOLE)

15) Regulatory Information:

Considered to be a marine pollutant.

Toxic to aquatic organisms.

Risk symbol

F: Flammable

Xi: Irritant

Xn: Harmful

N: Environmentally dangerous

Risk phrases

R10 - Flammable

R20/22 - Harmful by inhalation and if swallowed.

R36/37/38 – Irritating to eyes, respiratory system and skin.

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

R65 – Harmful: May cause drowsiness and dizziness.

R66 – Repeated exposure may cause skin dryness and cracking. **R67**

– Vapour may cause drowsiness and dizziness.

Safety Phrases

S1/2 – Keep locked up and out of reach of children. **S13**

– Keep away from food, drink, and animal feedstuffs

S23 – Do not breathe vapour / spray.

S24/25 – Avoid contact with skin and eyes

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

S60 – This material and its container must be disposed of as hazardous waste.

S61 – Avoid release to the environment. Refer to the special instructions / safety data sheets. .

S62 – If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS 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.

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