# with us you are growing goodness



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**REG NO:** 2000/010819/07 **VAT NO:** 4120189206

# **Safety Data Sheet**

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

IDENTIFICATION Product name:	VETO PLUS	
Other means of identification:	Bupirimate 250 g/L + Hexaconazole 30 g/L EC	
Chemical Name:	5-butyl-2-ethylamino-6-methylpyrimidin-4-yl dimethylsulfamate.	
Chemical Name.	(RS)-2-(2,4-dichlorophenyl)-1-(1 <i>H</i> -1,2,4-triazol-1yl)hexan-2-ol.	
Recommended use:	Fungicide	
Restrictions on use:	Agriculture	
UN No:	1993	
ON NO.	MERIDIAN AGRITECH	
Distributed by:	P O BOX 436	
Distributed by.	MODDERFONTEIN	
	TEL 011 8228509 FAX 0866901386	
	MOBILE: 083 400 6056 www.agritech.co.za	
	POISON CENTRE (UNITAS HOSPITAL)	
Emergency Number:	012 664 1100	
Emorgonoy Humbon.	TYGERBERG:021 931 6129	
	RED CROSS: 021 689 5227	
	RAPID SPILL RESPONSE 0800 775 3305	
	GRIFFON POISON CENTRE: 082 446 8946.	
2) HAZARDS IDENTIFICATION	O.M.   O.M.   O.O.M.   O.D.M.   O.D.   HTO   O.T.	
•	T	
Classification of the substance/mixture:	Acute Toxicity (Oral) Category 4	
	Acute Toxicity (Dermal) Category 3	
	Acute Toxicity (Inhalation) Category 4	
	Eye Irritation Category 2	
	Eye Damage Category 1 Skin Irritation Category 2	
	Skin Initiation Category 2 Skin Sensitization Category 1	
	Carcinogenicity Category 2	
	Aquatic Chronic Category 2	
	, riqualio ornolino callogor, I	
Label Elements:	Pictograms:	
Globally Harmonized System, EU (GHS):	$\wedge$	
	NV.	
	<b>Y</b> 3	
	Single Word: Warning	
	Harrand Statements	
	Hazard Statements: H226: Flammable liquid and vapour.	
	H302: Harmful if swallowed.	
	H311: Toxic in contact with skin.	
	H312: Harmful in contact with skin.	
	H315: Causes skin irritation.	
	H317: May cause an allergic skin reaction.	
	H318: Causes serious eye damage.	
	H319: Causes serious eye irritation.	
	H332: Harmful if inhaled.	
	H351: Suspected of causing cancer.	
	H400: Very toxic to aquatic life.	

**H410:** Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

# **Precautionary Statements:**

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

**P260:** Do not breathe fumes/vapours/spray.

**P262:** Do not get in eyes, on skin, or on clothing. **P270:** Do not eat, drink or smoke when using the product.

P272: Contaminated work clothing should not be allowed out of the

workplace.

**P273:** Avoid release to the environment.

**P280:** Wear protective gloves, protective clothing, eye protection. **P321:** Specific treatment (See First aid measures on this label) **P362+P364:** Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

# According to Directive 67/548/EEC No. 1272/2008 [CLP]:

#### Hazard Symbol(s):

F: Flammable

Xi: Irritant Xn: Harmful

N: Environmentally dangerous

#### R-phrase(s):

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.

# S-phrase(s):

\$1/2: Keep locked up and out of reach of children.

\$13: Keep away from food, drink, and animal feedstuffs.

**\$23:** Do not breathe vapour / spray.

\$24/25: Avoid contact with skin and eyes.

**\$36/37/39:** Wear suitable protective clothing, gloves and eye/face

protection.

**\$60:** 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.

# 3) COMPOSITION / INFORMATION ON ING

# 3.1 Substances:

Not applicable

#### 3.2 Mixtures:

Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Bupirimate	250 g/L	41486-43-6	255-391-2	Skin Sens. Cat. 1B (H317) Carc. Cat. 2 (H351) Aquatic Chronic Cat. 1 (H410) Acute Tox. Cat. 3 (H311)
Hexaconazole	30 g/L	79983-71-4	413-050-7	Acute Tox. Cat. 4 (H302) Skin Sens. Cat. 1 (H317) Aquatic Chronic Cat. 2 (H411)
Benzyl alcohol	10%	100-51-6	202-859-9	Acute Tox. Cat. 4 (H302) Acute Tox. Cat. 4 (H332) Eye Irrit. Cat. 2 (H319) Acute Tox. Cat. 4 (H312) Eye Dam. Cat. 1 (H318) Skin Irrit. Cat. 2 (H315) Skin Sens. Cat. 1 (H317)

# 4) FIRST AID MEASURES Should irritation occur, rinse immediately with large amounts Eve contact: of clean water. Seek medical assistance. Skin contact: Carefully remove contaminated clothing and decontaminate before reuse. Wash affected area with soap and water for 15 minutes. Seek medical aid if irritation persists. Wash out mouth with water if victim is able, alert and Ingestion: 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. Remove the victim to fresh air. Keep the victim warm and at Inhalation: rest. If breathing stops, administer artificial respiration. Seek medical assistance. Symptoms not known. Most important symptoms and effects, acute and delayed: Treat symptomatically and supportively. If gastric lavage is Indication of immediate medical attention and special performed: endotracheal control and / or esophagoscopy is treatment needed: Advice to physician recommended. The administration of activated charcoal is also recommended. 5) FIRE-FIGHTING MEASURES **Extinguishing Media:** Small fires: Foam, dry chemical, or carbon dioxide. Large fires: water fog or alcohol resistant foam. **Unsuitable Extinguishing Media:** Avoid the use of a solid water stream as this may cause spreading. Specific Hazards arising from the substance/mixture: Fire may produce irritating or poisonous vapours (carbon monoxide, smoke, nitrogen oxides, and partly oxidised hydrocarbon fragments), mists or other hazardous products of combustion. Fire Fighting: Try to contain spills, minimise spillage entering drains or water courses. Water spray may be used for the cooling of unaffected stock. 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. Protective clothing: Full protective clothing and self-contained breathing apparatus 6) ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and Avoid skin and eye contact. Do not breathe in the spray or emergency procedures: fumes. For personal protection see Section 8 **Environmental precautions:** 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.

#### Methods and material for containment and cleaning up:

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

#### **Precautions for Safe Handling:**

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.

Conditions for Safe Storage, including any incompatibilities:

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, unauthorized 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.

#### 8) EXPOSURE CONTROL / PERSONAL PROTECTION

Appropriate Engineering Controls:	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.
Control Parameters: Occupational exposure limits:	None known.
PERSONAL PROTECTIVE EQUIPMENT:	
Clothing:	Employee must wear appropriate protective (impervious) clothing, boots and equipment in order to prevent repeated or prolonged skin contact with this substance.
Respiratory protection:	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.
Gloves:	The employee must wear appropriate synthetic protective gloves.
Eye protection:	Safety goggles or a face shield are recommended.
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	3 7
Appearance:	Light tan liquid
Odour:	Characteristic
Odour threshold:	No data available
pH:	6.3
Melting point / Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point:	36° C
Evaporation rate:	No data available
Flammability (solid, gas) Upper/ lower flammability or explosive limits:	Product is flammable.
Vapour pressure:	No data available
Vapour density:	No data available  No data available
Relative density:	1.01 g/cm3
Solubility(ies)	Emulsifies in water.
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature:	No data available
Viscosity:	No data available
10) STABILITY & REACTIVITY	·
Reactivity:	Stable under normal storage conditions.
Chemical Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Possibility of hazardous reactions:	No hazardous reactions if stored and handled as indicated.
Conditions to avoid:	Protect from direct sunlight and from frost.
Incompatible materials:	None known.
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.

Acute oral LD <sub>0</sub> for patal source and mailard ducks - 4000 mg/kg.  Fish: Dephila (LD <sub>0</sub> > 3000 mg/kg for rats. LD <sub>0</sub> > 3000 mg/kg for rats. LD <sub>0</sub> > 3000 mg/kg for rats. LD <sub>0</sub> > 3000 mg/kg source and maining and use.  Moderate to severe irritant.  Serious Eye Damage/firitation: Serious Eye Damage/firitation: Serious Eye Bandge/firitation: No data available STOT-RE: Repreaded exposure may cause skin dryness and cracking. No data available STOT-RE: Repeated exposure may cause skin dryness and cracking. No data available STOT-RE: Repeated exposure may cause skin dryness and cracking. No data available Stotal CollogicAL InFORMATION Ecotoxicity: Suprimate Birds: Acute oral LD <sub>0</sub> for uput-5200, pigeons >2700 mg/kg. ClC <sub>0</sub> (6 for bode/file qual = 5200, pigeons >2700 mg/kg. ClC <sub>0</sub> (6 for bode/file qual and mailard duck of 10 000 mg/kg. ClC <sub>0</sub> (6 for bode/file qual and mailard duck of 10 000 mg/kg. ClC <sub>0</sub> (6 for bode/file qual and mailard duck of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (6 for product of 10 000 mg/kg. ClC <sub>0</sub> (7 for product of 10 000 mg/kg. ClC <sub>0</sub> (7 for product of 10 000 mg/kg. ClC <sub>0</sub> (7 for product of 10 000 mg/kg. ClC <sub>0</sub> (7 for product of 10 000 mg/kg. ClC <sub>0</sub> (7 for product of 10 000 mg/kg. ClC <sub>0</sub> (7 for product of 10 000 mg/kg. ClC <sub>0</sub> (7 for product of 10 000 mg/kg.	11) TOXICOLOGICAL INFORMATION	
Doranal:    LDbs 3000 mp/kg for rats.		
Dermal: Inhalation: Slight toxicity, Unlikey to cause harmful effects under normal conditions of handling and use.  Skin Corrosion/Irritation: Moderate to severe initiant.  Serious Eye Damage/Irritation: Severa initiant  Respiratory or Skin Sensitization: Mid skin sensitizar (guinea pigs).  Germ Cell Mutagenicity: No data available  Garcinogenicity: Suspected of causing cancer.  Reproductive Toxicity: No data available  STOT-RE: No data available  STOT-RE: Repeated sposure may cause skin dryness and cracking.  Repreting the Repeated sposure may cause skin dryness and cracking.  Repreting the Repreting the Repreting the Repeated sposure may cause skin dryness and cracking.  Repreting the Repr		$LD_{50} > 300 \text{ mg/kg for rats.}$
Skin Corrosion/Irritation: Moderate to severe irritant.  Serious Eye Damage/Irritations: Moderate to severe irritant.  Respiratory or Skin Sensitization: Mild skin sensitizer (guinea pigs).  Gern Cell Mutagenicity: No data available  Garcinogenicity: Suspected of causing cancer.  Reproductive Toxicity: No data available  STOT-RE: No data available  STOT-RE: Repeated exposure may cause skin dyness and cracking.  Reproductive Toxicity: No data available  STOT-RE: Repeated exposure may cause skin dyness and cracking.  Reproductive Toxicity: No data available  STOT-RE: Repeated exposure may cause skin dyness and cracking.  Reproductive Toxicity: No data available  STOT-RE: Repeated exposure may cause skin dyness and cracking.  Reproductive Toxicity: No data available  Stotoxicity: No data available  Acute oral LDs; for quali -5200, pigeons >2700 mg/kg.  Oral LCan (50 ) for behavitie quali and mallard ducks >10 000 mg/kg.  Oral LCan (50 ) for behavitie quali and mallard ducks >10 000 mg/kg.  LCan (48 h) 7.3 mg/l  LCan (48 h	Dermal:	
Skin Corrosion/tritation:  Serious Eye Damage/fritation:  Savore irritant  Serious Sey Damage/fritation:  Serious Eye Damage/fritation:  Serious Eye Damage/fritation:  Mild skin sensitizer (guinea pigs):  Carcinogenicity:  Suspected of causing cancer.  No data available  STOT-RE:  Repeated exposure may cause skin dyness and cracking.  No data available  STOT-RE:  Repeated exposure may cause skin dyness and cracking.  No data available  12) ECOLOGICAL INFORMATION  Ecotoxicity:  Suprimate  Birds:  Acute oral LDse for quali >5200, pigeons >2700 mg/kg.  Oral LCse (5 q) for botwhite qual and mallard ducks >100 00 mg/kg.  LCse (48 h) 7.3 mg/l  LCse (48 h) 7.3 mg/l  Research  Acute oral LDse for quali >5200, pigeons >2700 mg/kg.  Oral LCse (5 q) for rainbow trout 1.4 mg/l.  LCse (48 h) 7.3 mg/l  LCse (48 h) 7.3 mg/l  Research  Acute oral LDse for mallard ducks >4000 mg/kg.  LCse (48 h) 7.3 mg/l  ECGe (72 h) 1.7 mg/l	Inhalation:	Slight toxicity. Unlikely to cause harmful effects under
Serious Eye Damage/Irritation:  Servere irritant Respiratory or Skin Sensitization:  Mild skin sensitizer (guinea pigs).  No data available  Suspected of causing cancer.  Reproductive Toxicity:  No data available  STOT-SE:  No data available  STOT-SE:  No data available  STOT-RE:  Repeated exposure may cause skin dryness and cracking.  No data available  12) ECOLOGICAL INFORMATION  Ecotoxicity:  Bupirimate  Birds:  Acute oral LD <sub>20</sub> for quail >5200, pigeons >2700 mg/kg.  Cl2a (96 h) for rambow trout 1.4 mg/l.  LC <sub>20</sub> (96 h) for rambow trout 1.4 mg/l.  LC <sub>20</sub> (96 h) for rambow trout 1.4 mg/l.  LC <sub>20</sub> (96 h) for rambow trout 1.4 mg/l.  LC <sub>20</sub> (96 h) for rambow trout 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/l.  LC <sub>20</sub> (98 h) for rambow trout 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/l.  LC <sub>20</sub> (98 h) for rambow drout 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/l.  LC <sub>20</sub> (98 h) for rambow drout 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/l.  LC <sub>20</sub> (98 h) for mailard ducks >4000 mg/kg.  EC <sub>20</sub> (79 h) 1.7 mg/l.  LC <sub>20</sub> (98 h) for mailard outs >4000 mg/kg.  EC <sub>20</sub> (79 h) 1.7 mg/l.  LC <sub>20</sub> (19 h) 1.7 mg/l.  LC <sub>20</sub> (19 h) 1.7 mg/l.  LC <sub>20</sub> (19 h) 1.7 mg/l.  Hexaconazole:  Suit/Environment in soil, the major degradation product is ethirimo. Soil D75 3.9-9 of (non-sterile flooded or non-flooded soils, pH 5.1-7.3).  Hexaconazole:  Soil/Environment. Rapidly degraded in soils in laboratory tests.  Bio-accumulative Potential:  Not available		normal conditions of handling and use.
Respiratory or Skin Sensitization:  Mild skin sensitizar (guinea pigs).  Germ Cell Mutagenicity:  No data available  Reproductive Toxicity:  No data available  STOT-SE:  No data available  Repeated exposure may cause skin dryness and cracking.  No data available  No data available  12) ECOLOGICAL INFORMATION  Ecotoxicity:  Suprimate  Birds:  Acute oral LD <sub>20</sub> for quail >5200, pigeons >2700 mg/kg.  Oral LC <sub>20</sub> (5 d) for bobwrite quail and maliard ducks or suprimate  Birds:  Acute oral LD <sub>20</sub> for quail >5200, pigeons >2700 mg/kg.  Oral LC <sub>20</sub> (6 R) nor mildow trout 1.4 mg/l.  Daphnia:  LC <sub>20</sub> (4 R) 17.3 mg/l  Respected ducks >4000 mg/kg.  LC <sub>20</sub> (4 R) 17.3 mg/l  Respected ducks >4000 mg/kg.  LC <sub>20</sub> (4 R) 17.7 mg/l  Respected and monos 5.4 mg/l  LC <sub>20</sub> (4 R) 12.7 mg/l  Respected and contact LD <sub>20</sub> for maliard ducks >4000 mg/kg.  LC <sub>20</sub> (4 R) 12.7 mg/l  Respected and contact LD <sub>20</sub> for maliard ducks >4000 mg/kg.  LC <sub>20</sub> (4 R) 12.7 mg/l  Respected and contact LD <sub>20</sub> for maliard ducks >4000 mg/kg.  LC <sub>20</sub> (4 R) 12.7 mg/l  Respected and contact LD <sub>20</sub> for honeybees >0.1 mg/bee  Persistence and Degradability:  Biprimate  Sulfrimate  Sulfirmate  Animate:  Respected by marmals, 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 faces within 10 days.  Hexaconazole:  Sulfirmite marmals, following oral administration, 68% of the dose is eliminated in the urine and 21% in the faces within 10 days.  Maste Disposal:  In accordance with local and national regulations, Open dumping or truning of this product cannot be reused or re-processed.  Never pour untreated waste or surplus products in public sewers or where there is a danger of run-off or seepage knot any water systems.  Do not contaminate witer (nod or feed by disposal.) Wastes resulting from the use of this product cannot be reused or re-processed.	Skin Corrosion/Irritation:	Moderate to severe irritant.
Respiratory or Skin Sensitization:  Mild skin sensitizar (guinea pigs).  Germ Cell Mutagenicity:  No data available  STOT-SE:  No data available  STOT-SE:  No data available  No data available  Reproductive Toxicity:  No data available  No data available  No data available  No data available  12) ECOLOGICAL INFORMATION  Ecotoxicity:  Suprimate  Birds:  Acute oral LD <sub>30</sub> for quail >5200, pigeons >2700 mg/kg. Oral LO <sub>5</sub> (5 d) for bolowhite quail and maliard ducks product of the produ	Serious Eve Damage/Irritation:	Severe irritant
Germ Cell Mutagenicity:  Suspected of causing cancer.  Reproductive Toxicity:  No data available  Repeated exposure may cause skin dryness and cracking.  No data available  No data available  No data available  Aspiration Hazard:  Acute oral LD₂ (a) (b) (b) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		Mild skin sensitizer (quinea pigs).
Carcinogenicity:    Suspected of causing cancer.		
Reproductive Toxicity:  No data available STOT-RE: No data available STOT-RE: No data available STOT-RE: Repeated exposure may cause skin dryness and cracking. No data available No data available  Repeated exposure may cause skin dryness and cracking. No data available  Aspiration Hazard: Repeated exposure may cause skin dryness and cracking. No data available  Acute oral LD <sub>00</sub> for quail >5200, pigeons >2700 mg/kg. Oral LC <sub>00</sub> (5 d) for bobwhite quail and mallard ducks >10000 mg/kg. Fish: LC <sub>00</sub> (96 h) for rathow trout 1.4 mg/l. LC <sub>00</sub> (96 h) 17.3 mg/l NOEL: (oral) 0.20 mg/bee; (contact) 0.050 mg/bee.  Hexaconazole Birds: Acute oral LD <sub>00</sub> for mallard ducks >40000 mg/kg. Fish: LC <sub>00</sub> (96 h) for rathow trout: 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/l. LC <sub>00</sub> (48 h) 2. mg/l Repeated minnows 5.4 mg/l. LC <sub>00</sub> (48 h) 7.3 mg/l Repeated minnows 5.4 mg/l. LC <sub>00</sub> (48 h) 2. mg/l Repeated minnows 5.4 mg/l. LC <sub>00</sub> (48 h) 2. mg/l Repeated minnows 5.4 mg/l. Repeated minnows 5.4 mg/l		
STOT-RE: Repeated exposure may cause skin dryness and cracking.  Aspiration Hazard: No data available  Acute oral LD <sub>∞</sub> for quali >5200, pigeons >2700 mg/kg. Oral LC <sub>∞</sub> (5 d) for botwhite qual and mallard ducks >10 000 mg/kg. LC <sub>∞</sub> (96 h) for rainbow trout 1.4 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 1.4 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 1.4 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 1.4 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 1.4 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 1.4 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 1.4 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 1.2 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 1.2 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/l. LC <sub>∞</sub> (96 h) for rainbow trout 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/l. LC <sub>∞</sub> (12 h) 1.7 mg		·
Repeated exposure may cause skin dryness and cracking.	<u> </u>	
Acute oral LD <sub>50</sub> for quall >5200, pigeons >2700 mg/kg. Oral LC <sub>50</sub> (5 d) for botwhile quall and maliard ducks >10 Daphnia:		
12) ECOLOGICAL INFORMATION  Ecotoxicity: Buprimate Birds:  Acute oral LD₂ for quail >5200, pigeons >2700 mg/kg. Oral LC₂ (5 d) for bobwhite quail and mailard ducks >10 000 mg/kg. LC₂ (8 h) for rainbow trout 1.4 mg/l. LC₂ (8 h) 7.3 mg/l NoEL: (oral) 0.20 mg/bee; (contact) 0.050 mg/bee.  Hexaconazole Birds:  Acute oral LD₂ for mailard ducks >4000 mg/kg. LC₂ (8 h) 7.3 mg/l NoEL: (oral) 0.20 mg/bee; (contact) 0.050 mg/bee.  Hexaconazole Birds:  Acute oral LD₂ for mailard ducks >4000 mg/kg. Fish: LC₂ (8 h) for rainbow trout 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/L. LC₂ (8 h) a mg/l EcC₂ (7 k) 1.7 mg/l. Ec		
Acute oral LD‰ for quail >5200, pigeons >2700 mg/kg. Oral LC₂, (5 d) for botwhite quail and mallard ducks >10 000 mg/kg. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for for ainbow trout 1.4 mg/l. LC₂, (6 d) for rainbow trout 3.4 mitror carp 5.94, sheepshead minnows 5.4 mg/l. LC₂, (96 h) for rainbow trout 3.4 mitror carp 5.94, sheepshead minnows 5.4 mg/l. LC₂, (96 h) for rainbow trout 3.4 mitror carp 5.94, sheepshead minnows 5.4 mg/l. LC₂, (14 d) >1000 mg/kg dry soil. LC₂, (14 d) >1000 mg/kg dry soil. LC₂, (14 d) >1000 mg/kg dry soil. Acute oral and contact LD₂₀ for honeybees >0.1 mg/bee Bupirimate    Persistence and Degradability:   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.	•	140 data avaliable
Acute oral LD∞ for quall >5200, pigeons >2700 mg/kg. Oral LC∞ (6 d) for botwhite quail and mallard ducks >1000 mg/kg. Coral LC∞ (6 d) for rainbow trout 1.4 mg/l. LC∞ (86 h) for rainbow trout 1.4 mg/l. LC∞ (48 h) 7.3 mg/l NOEL: (oral) 0.20 mg/bee; (contact) 0.050 mg/bee.	•	
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Daphnia:   LC <sub>00</sub> (48 h) 7.3 mg/l	Fish:	
Bees:   NOEL: (oral) 0.20 mg/bee; (contact) 0.050 mg/bee.		
Hexaconazole   Birds:	•	
Acute oral LD <sub>90</sub> for mallard ducks >4000 mg/kg. LC <sub>90</sub> (9h h) for rainbow trout: 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/L. LC <sub>90</sub> (9h h) for rainbow trout: 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/L. LC <sub>90</sub> (48 h) 2. mg/l. ES <sub>90</sub> (72 h) 1.7 mg/l. LC <sub>90</sub> (14 d) >1000 mg/kg dry soil. Acute oral and contact LD <sub>90</sub> for honeybees >0.1 mg/bee    Persistence and Degradability:		
Fish:    Cos (96 h) for rainbow trout: 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/L.	<u>Hexaconazole</u>	
Fish:    LCa <sub>0</sub> (96 h) for rainbow trout: 3.4, mirror carp 5.94, sheepshead minnows 5.4 mg/L. LCa <sub>0</sub> (48 h) 2. mg/l E <sub>1</sub> Ca <sub>0</sub> (72 h) 1.7 mg/l. LCa <sub>0</sub> (48 h) 2. mg/l E <sub>1</sub> Ca <sub>0</sub> (72 h) 1.7 mg/l. LCa <sub>0</sub> (14 d) a 1000 mg/kg dry soil. Acute oral and contact LDa <sub>0</sub> for honeybees >0.1 mg/bee Bupirimate Soil/Ernvironment 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/Ernvironment. Rapidly degraded in soils in laboratory tests.	Birds:	Acute oral LD <sub>50</sub> for mallard ducks >4000 mg/kg.
Daphnia: Algae:   Et <sub>0</sub> C <sub>90</sub> (48 h) 2. mg/l	Fish:	LC <sub>50</sub> (96 h) for rainbow trout: 3.4, mirror carp 5.94,
Algae:  Worms: Bees:    EicCso (72 h) 1.7 mg/l.   LCso (14 d) > 1000 mg/kg dry soil.   Acute oral and contact LDso for honeybees > 0.1 mg/bee   Persistence and Degradability:   Bupirimate		sheepshead minnows 5.4 mg/L.
Description		LC <sub>50</sub> (48 h) 2. mg/l
Persistence and Degradability:    Comparison		E <sub>b</sub> C <sub>50</sub> (72 h) 1.7 mg/l.
Acute oral and contact LD <sub>50</sub> for honeybees >0.1 mg/bee  Bupirimate Soil/Environment In soil, the major degradation product is ethirimol. Soil DTSO 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-accumulative Potential:  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.  Mobility in Soil:  Not available  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 knot 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		LC <sub>50</sub> (14 d) >1000 mg/kg dry soil.
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on site or at an approved waste disposal facility.		
		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		
Road Transport ADR / IRD:	UN NUMBER: 1993 UN Proper Shipping name: FLAMMABLE, LIQUID. N.O.S. ( SOLVENTS, BUPIRIMATE, HEXACONAZOLE) Transport Hazard Class: 3 Packaging group: III Labelling no: 3	
	Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.	
Maritime Transport IMDG / IMO:	UN NUMBER: 1993 UN Proper Shipping name: FLAMMABLE, LIQUID. N.O.S. ( SOLVENTS, BUPIRIMATE, HEXACONAZOLE) Transport Hazard Class: 3 Packaging group: III Labelling no: 3 Environmental Hazards: Marine Pollutant Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.	
Air Transport ICAO / IATA:	UN NUMBER: 1993 UN Proper Shipping name: FLAMMABLE, LIQUID. N.O.S. ( SOLVENTS, BUPIRIMATE, HEXACONAZOLE) Transport Hazard Class: 3 Packaging group: III Labelling no: 3 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.	
Transport in Bulk (according to Annex II of MARPOL	No transport in bulk according to the IBC Code.	
73/78 and the IBC Code):		
15) REGULATORY INFORMATION	For the coord of this plant was to start and the coord of the co	
Safety, health and environmental regulations/legislation specific for the substance/mixture:	For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)	
Chemical Safety Assessment:	Advice on product handling can be found in sections 7 and	
16) OTHER INFORMATION	8 of this safety data sheet.	
All information and instructions provided in this Meterial Safety Data Sheet (MSDS) are based on the current state of		

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.

It is the responsibility of persons in receipt of this MSDS 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 MSDS to their own MSDS.

The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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# Abbreviations and acronyms:

- 1. CAS number: Chemical Abstracts Service number.
- CLP: Classification, Labelling, Packaging.
- LD<sub>50</sub>: Lethal Dose for 50% of the test population.
   LC<sub>50</sub>: Lethal Concentration for 50% of the test population.
   DT<sub>50</sub>: Half-life.
- 6. GHS: Globally Harmonised System (of Classification and Labelling of Chemicals).

# **Literature References:**

- GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html
- ECHA: https://echa.europa.eu/search-chemicals