



Safety Data Sheet

VISTA FLO - Reg. No: L 808 (Act No 36 of 1947)

Date of issue: 03/08/2005

Date revised: 22/04/2016

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	Vista Flo
Other means of identification	Kresoxim-methyl 500 g/L SC
Recommended Use:	Fungicide
Restrictions on use:	Agriculture
UN No:	3082
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
Chemical Name:	Kresoxim-methyl: (E)--(methoxyimino)-2-[(2-methylphenoxy)methyl]benzeneacetic acid methyl ester
2) Hazards Identification:	
Classification of the product is based on the coformulants listed in section 3	Carc. Cat. 3; R40 N; R50 – 53 Full text of phrases; See section 15
Label Elements	Hazard symbols: Xn – Harmful N – Dangerous to the environment   Signal word: Harmful
Health effects: eyes:	May cause irritation. No specific effects or symptoms have been reported.
Health effects: skin:	May cause irritation. No specific effects or symptoms have been reported.
Health effects: ingestion	May be harmful if swallowed. No specific effects or symptoms have been reported.
Health effects: inhalation	May be harmful. No specific effects or symptoms have been reported.

3) Composition Details:	
COMPOSITION	Kresoxim-methyl
	500 g/L
4) First Aid Measures:	
Inhalation:	Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Skin contact:	Immediately remove contaminated clothing and flush body and clothes with large amounts of water and soap. Wash contaminated clothing before re-use. Seek medical assistance if irritation persists.
Eye contact:	Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately. Administer activated charcoal. If patient is conscious,, rinse mouth out and drink plenty of water.
Advice to physician:	There is no known antidote. Treat symptomatically and give supportive therapy.
5) Fire-Fighting Measures:	
Flash point:	Does not flash.
Extinguishing Media:	Water fog, foam, carbon dioxide or dry chemical. Avoid strong water jets - airborne dusts may be an explosion hazard.
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. Bund area with sand or earth to avoid pollution of waterways. Water can be used to cool containers. Dispose of extinguishing agent and spillage in a safe way at a later stage. If area is heavily exposed to fire and if conditions permit, let the fire burn itself out since water may increase the area contaminated. If involved in a major fire, could evolve oxides of carbon or nitrogen.
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	

<p>Personal precautions:</p> <p>Environmental precautions:</p> <p>Occupational spill:</p>	<p>Avoid contact with skin and eyes. 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>Do not eat, drink or smoke during the clean up process. Clear area of unprotected personnel. Wear protective gear: goggles. Half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. Keep people and animals away. Reposition leaking containers to minimize further leakage.</p> <p>Contain spill and collect and store in properly labelled, tightly closing drums for safe disposal. Treat contaminated areas with water containing soda or detergent.. Seal drums and label ready for later disposal.</p> <p>Dike spill area and collect washings to avoid any contamination of surface and ground water, water supplies and drains. Heavily contaminated soil layers should be removed and disposed of in an approved way. Rinse the spill area and any tools or implements several times with soapy water. Contain and adsorb the rinsate with inert absorbents and place into the same disposal container as the spill material. Notify regulatory authorities if necessary.</p>
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7) Handling & Storage:

<p>Handling:</p>	<p>Avoid skin and eye contact as this product will irritate. Thus Harmful if swallowed. Wash hands thoroughly with soap and water before breaks and immediately after handling the product. Do not eat, drink, smoke or apply cosmetics when there is a possibility of exposure to the product. Wash goggles or face shield and contaminated clothing thoroughly after each day's use. When opening the container wear the following protection: Elbow length PVC gloves Wash gloves after each days use. Wash hands after use.</p> <p>Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Do not apply if heavy rains are imminent.</p>
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<p>Storage:</p>	<p>Store in original container tightly closed and in a locked, dry, cool, well-ventilated out of direct sunlight. Protect from temperatures above 40°C. Properties of the product may change if stored above this temperature for extended periods. Avoid extreme heat and cold. Decomposes at elevated temperatures. Store away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons. DO NOT store in direct sunlight for prolonged periods.</p>
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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>Occupational Exposure Limits:</p> <p>Engineering Controls:</p>	<p>Not established</p> <p>Facilities storing or using this material should be equipped with an eyewash facility and safety shower. Ventilation is required. Wash clothing before re-using. Wash hands and other exposed areas with mild soap and</p>
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<p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Respiratory protection:</p> <p>Gloves:</p> <p>Eye protection:</p>	<p>water before eating, drinking or smoking and when leaving work. Consult supplier to confirm that the equipment is suitable.</p> <p>Cotton overalls buttoned to the neck and wrist and a washable hat.</p> <p>Handle in well ventilated areas, generally natural ventilation is adequate.</p> <p>Elbow length PVC gloves.</p> <p>Face shield.</p>
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9) Physical & Chemical Properties:	
Form:	Liquid
Colour:	White to beige
Odour:	Mild aromatic odour
Solubility:	Suspends in water
pH:	6.8
Odour threshold: Melting point / Freezing point Initial boiling point and boiling range Flash point: Evaporation rate: Flammability (solid, gas) Upper/ lower flammability or explosive limits: Vapour pressure: Vapour density: Relative density: Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	Not available 97 – 102 NA Not available Not flammable Not available 2.3 µPa (20°C) Not available 1.11 – 1.14 g/L Not available Not available Not available

10) Stability & Reactivity:	
Stability: Conditions to avoid: Incompatible materials: Hazardous decomposition product(s):	<p>Stable under standard conditions.</p> <p>Protect from sunlight, open flames, sources of heat. Decomposes upon heating.</p> <p>Strong bases, oxidizing agents.</p> <p>High temperatures of fire may produce irritating gases & vapors (CO₂, CO, NO_x).</p>

11) Toxicological Information:

Oral : LD50 (rat) >2,000 mg/kg for kresoxim-methyl
 Dermal : LD50 (rat) >2,000 mg/kg for kresoxim-methyl
 Inhalation : LC50 (rat) (4hr) >5.6 mg/l for kresoxim-methyl Skin irritation:
 Not irritant.
 Eye irritation : Not irritant.
 Sensitization : Did not cause sensitization on laboratory animals, guinea pig.

12) Ecological Information: The following is data for the active ingredient, kresoxim-methyl.

Toxic to aquatic organisms
 Bees : Not toxic to bees. LD50 >20 µg/bee.
 Birds : Not toxic to birds. LD50 for quail is >2,150 mg/kg Fish :
 LC50 (96hr) for bluegill sunfish is 0.5 mg/l.
 LC50 (96 hr) for rainbow trout is 0.2 mg/l. Daphnia :
 EC50 (48hr) is 0.186 mg/l.

Persistence: Rapidly degraded; in aerobic soil, or under aerobic or anaerobic aquatic metabolism, DT₅₀ <1 d. In soil, DT₉₀ (lab.) <3 d; the main metabolite is the corresponding acid. Very mobile in soil; K_{oc} 219–372; K_{oc} of the acid 17–24. However, in lysimeter studies, only low levels of kresoxim-methyl and its metabolite were found in leachates.

13) Disposal Considerations:

Waste Disposal : In accordance with local and national regulations. Must be disposed of at an appropriate disposal facility. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved chemicals waste disposal facility.

Container Disposal : Triple or pressure rinse containers before disposal. Do not dispose of undiluted chemical on-site. If recycling, close container and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation or tree roots. Empty containers and product should not be burnt. Dispose of waste product at a reputable waste disposal contractor.

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. (Contains Kresoxim-methyl)

Maritime Transport IMDG / IMO:

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods Packaging group:

III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Kresoxim-methyl)

15) Regulatory Information:

Symbol(s):

R-phrases(s):

R40 Limited evidence of a carcinogenic effect.

R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in

aquatic environments. **S-phrases(s):**

S2 - Keep out of reach of children.

S 7 – Keep container tightly closed.

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

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

S35 - This material and its container must be disposed of in a safe way.

S57 Use appropriate containment to avoid environmental contamination.

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

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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