

Safety Data Sheet

VEGA - Reg. No: L 9265 (Act No 36 of 1947) N-AR 1688

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1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	VEGA
UN No:	3082
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 TYGERBERG:021 931 6129 RED CROSS: 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
Chemical Name:	(5RS)-2-((E)-1-[(2E)-3-chloroallyloxyimino]propyl) - 5 -[(2RS)-2-(ethylthio) propyl] - 3-hydroxycyclohex-2- en-1-one IUPAC
2) Hazards Identification:	
Health effects: eyes:	May cause mild irritation.
Health effects: skin:	May cause mild irritation.
Health effects: ingestion	May cause irritation and may be harmful.
Health effects: inhalation	Unlikely to cause harmful effects under normal conditions and use.
3) Composition Details:	
COMPOSITION	Clethodim
	240 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 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. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical assistance if irritation occurs.
Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. Induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Advice to physician:	No specific antidote known. Treat symptomatically. Repeatedly administer medicinal charcoal in a large quantity of water.
5) Fire-Fighting Measures:	

<p>Flash point:</p> <p>Extinguishing Media:</p> <p>Fire Fighting:</p>	<p>65 °C Moderately flammable.</p> <p>Fine water spray, foam, carbon dioxide. Do not use high volume water jet, due to contamination risk.</p> <p>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.</p> <p>UNUSUAL FIRE OR EXPLOSION HAZARDS: Combustion products are toxic and/or irritant.</p>
<p>Protective clothing:</p>	<p>Full protective clothing and self-contained breathing apparatus</p>
<p>6) Accidental Release Measures:</p>	
<p>Personal precautions:</p> <p>Occupational spill:</p>	<p>Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.</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. Heavily contaminated soil layers have to be dug out down to clean soil. 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>7) Handling & Storage:</p>	
<p>Handling:</p> <p>Storage:</p>	<p>Avoid skin and eye contact and inhalation of spray mist. Avoid inhalation of fog and vapours. Keep away from heat and sources of ignition. Spills may be slippery and should be cleaned up immediately.</p> <p>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.</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 a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons. Avoid extreme temperatures.</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>Gloves:</p> <p>Eye protection:</p> <p>Emergency eye wash:</p>	<p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Respiratory protection: Respirator with filter for organic vapour.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance</p> <p>The use of safety goggles with side shields is 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>Form:</p>	<p>Liquid</p>
<p>Colour:</p>	<p>Yellow to brown</p>
<p>Odour:</p>	<p>Mild characteristic odour</p>
<p>Solubility:</p>	<p>Emulsifies in water</p>
<p>pH:</p>	<p>7.5</p>
<p>10) Stability & Reactivity:</p>	
<p>Stability:</p> <p>Hazardous decomposition product(s):</p>	<p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Protect from light and humidity.</p> <p>Heating can release vapours which can be ignited. Combustion products are toxic and/or irritant.</p>
<p>11) Toxicological Information:</p>	
<p>Tech. Oral : LD₅₀ > 2 000 mg/kg, rat. Dermal : LD₅₀ > 5 000 mg/kg, rabbit. Inhalation : LC₅₀ (4h) > 2.5 mg/L, rat.</p> <p>Skin irritation: Moderate irritant, rabbit. Eye irritation : Moderate irritant, rabbit. Sensitization : Did not cause sensitization on laboratory animals.</p>	
<p>12) Ecological Information:</p>	
<p>Tech. Bees : LD₅₀ (48h) Oral >100 µg/bee. Not toxic. Birds : LD₅₀ Bobwhite quail Dietary LC₅₀ Mallard ducks >5 000 mg/kg. Fish : LC₅₀ (48h) Rainbow trout > 60 mg/L, Bluegill sunfish >120 mg/L. Daphnia : LC₅₀ (48h) > 120 mg/L. Algae : EC₅₀ (5d) fresh water algae > 50 mg/L. Worms : LC₅₀ > 450 mg/kg soil.</p> <p>Persistence: Rapidly degraded in biologically active soils. DT₅₀ 1 – 3 days.</p>	
<p>13) Disposal Considerations:</p>	
<p>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 chemicals waste disposal facility.</p> <p>Container Disposal : Refer to the product label for instructions. Container Refilling and Disposal: 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.</p>	
<p>14) Transportation Information:</p>	

UN NUMBER: 3082
Road Transport ADR/ RID:
Class: 9
Packaging group: III
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (clethodim)

Maritime Transport IMDG / IMO:
Class: 9
Packaging group: III
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (clethodim)
Marine pollutant

Air (ICAO / IATA):
Class: 9
Packaging group: III
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (clethodim)

15) Regulatory Information:

Symbol(s): Xn – Harmful N

R-phrases(s):

R10 – Flammable.
R20/22 - Harmful by inhalation or 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
R65 – Harmful: may cause lung damage if swallowed.

S-phrases(s):

S2 - Keep 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 any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves
S35 - This material and its container must be disposed of in a safe way.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
S46 – If swallowed, seek medical advice immediately and show this container
S57 - Use appropriate containment to avoid environmental contamination.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheet
S62 – If swallowed, do not induce vomiting: seek medical advice immediately

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.

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