

Safety Data Sheet

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

Date of issue: August 2013
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1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	VEGA
Other identification means	Clethodim 240 g/L
UN Number:	3082
Recommended use:	Herbicide
Restrictions on use:	Agriculture
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) CLASSIFICATION OF THE SUBSTANCE / MIXTURE:	
Classification of the product:	Classification according to Regulation EC 1272/2008 (CLP) Acute Tox. 2 (H302) Aquatic Chronic 2 (H411) For more R-Phases, See section no 15
Label elements:	Hazard symbol (S)  Signal word: DANGER

	<p>Hazard statements:</p> <p>H227: Combustible liquid.</p> <p>H303: May be harmful if swallowed.</p> <p>H304: May be fatal if swallowed and enters airways.</p> <p>H316: Causes mild skin irritation.</p> <p>H318: Causes serious eye damage.</p> <p>H332: Harmful if inhaled.</p> <p>H340: May cause genetic defects.</p> <p>H350: May cause cancer.</p> <p>H360D: May damage the unborn child.</p> <p>H412: Harmful to aquatic life with long lasting effects.</p> <p>Precautionary statements:</p> <p>P202: Do not handle until all safety precautions have been read and understood.</p> <p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P260: Do not breathe mist/spray.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.</p> <p>P284: In case of inadequate ventilation wear respiratory protection.</p> <p>P301/310: IF SWALLOWED: Immediately call a POISON CENTER.</p> <p>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308/313: If exposed or concerned: Get medical attention.</p> <p>P310: IF IN EYES: Immediately call a POISON CENTRE.</p> <p>P331: Do NOT induce vomiting.</p> <p>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405: Store locked up.</p> <p>P501: Dispose of contents/container in accordance with local regulations.</p> <p>Special labelling of certain mixtures:</p> <p>None known.</p> <p>Other hazards:</p> <p>None known.</p>
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 / INFORMATION ON INGREDIENTS:	
COMPOSITION	

Mixture:

Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Clethodim	24%	99129-21-2		Acute Tox. 2 (H302) Aquatic Chronic 2 (H411)	Xn; R22 N; R51-
Other Inerts					

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:

Suitable extinguishing media:	Fine water spray, foam, carbon dioxide. Do not use high volume water jet, due to contamination risk.
Unsuitable extinguishing media:	
Special hazards arising from the substance or mixture:	
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. UNUSUAL FIRE OR EXPLOSION HAZARDS: Combustion products are toxic and/or irritant.
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>Wear appropriate safety clothing and eye/face protection. Do not breathe in spray or fumes. 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 and place in waste containers. Wash area with water containing soda or detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Heavily contaminated soil layers should be removed and disposed of in an approved way. 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. 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.</p> <p>Container Disposal:</p> <p>Refer to the product label for instructions.</p> <p>If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.</p> <p>DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</p> <p>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. 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, fertilizers and seeds. Keep away from children or uninformed persons. Avoid extreme temperatures.</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</p>	

<p>maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>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.</p> <p>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>
9) PHYSICAL & CHEMICAL PROPERTIES:	
<p>Form:</p> <p>Colour:</p> <p>Odour:</p> <p>Solubility:</p> <p>pH:</p> <p>Flash point:</p>	<p>Liquid</p> <p>Yellow to brown</p> <p>Mild characteristic odour</p> <p>Emulsifies in water</p> <p>7.5</p> <p>65 °C Moderately flammable.</p>
10) STABILITY & REACTIVITY:	
<p>Reactivity</p> <p>Stability:</p> <p>Hazardous decomposition product(s):</p> <p>Conditions to avoid:</p> <p>Incompatible materials:</p>	<p>Not reactive under normal conditions.</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>Contact with incompatible materials. Keep out of reach of children. Excessive heat and freezing temperature</p> <p>None known.</p>
11) TOXICOLOGICAL INFORMATION:	
<p>Acute</p> <p>Oral : LD₅₀ > 2 000 mg/kg, rat.</p> <p>Dermal : LD₅₀ > 5 000 mg/kg, rabbit.</p> <p>Inhalation : LC50 (4h) > 2.5 mg/L, rat.</p> <p>Skin irritation: Moderate irritant, rabbit.</p> <p>Eye irritation : Moderate irritant, rabbit.</p> <p>Sensitization : Did not cause sensitization on laboratory animals.</p>	
12) ECOLOGICAL INFORMATION:	

Information below based on tech material: CLETHODIM

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.

Persistence: Rapidly degraded in biologically active soils. DT50 1 – 3 days.

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 chemicals waste disposal facility.

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 NO 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

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: Yes

Air (ICAO / IATA):

Class: 9

Packaging group: III

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

Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

15) REGULATORY INFORMATION:

Symbol(s): Xn ,N

Indication of danger: Harmful, Environmentally Hazardous Substance

R-phrases):

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):

S02 - 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

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. 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 this 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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