


Safety Data Sheet

VIDAC FLO L 9688 (Act 36 of 1947)

1) PRODUCT AND COMPANY IDENTIFICATION:	
Product name:	VIDAC FLO
Other means of identification:	Cymoxanil 300 g/L SC
Chemical Name:	1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea (IUPAC)
Recommended Use:	Fungicide
Restrictions on use:	Agriculture
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
2) HAZARDS IDENTIFICATION:	
Classification of the substance/mixture:	Acute Toxicity (Oral) Category 4 Skin Sensitization Category 1 STOT RE Category 2 (blood) Aquatic Acute Category 1 Aquatic Chronic Category 1 Reproductive Toxicity Category 2
Globally Harmonized System, EU (GHS):	<p>Pictograms:</p>  <p>Signal word: Warning Hazard Statements: H302: Harmful if swallowed. H317: May cause an allergic skin reaction. H361fd: Suspected of damaging the unborn child. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long-lasting effects.</p> <p>Precautionary Statements: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P262: Do not get in eyes, on skin, or on clothing. P263: Avoid contact during pregnancy. 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.</p>
According to Directive 67/548/EEC No. 1272/2008 [CLP]	

P362+P364: Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

Hazard Symbol(s):

N – dangerous for the environment

Xn – Harmful

Xi - Irritant

R-phrases(s):

R22: Harmful if swallowed

R43: May cause sensitization by skin contact.

R48: Danger of serious damage to health by prolonged exposure.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61: May cause harm to the unborn child.

S-phrases(s):

S1/2: Keep locked up and out of the reach of children.

S7: Keep container tightly closed.

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

S18: Handle and open container with care.

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

S24/25: Avoid contact with skin and eyes.

S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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

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

S46: If swallowed, seek medical advice immediately and show this container or label.

S57: Use appropriate containment to avoid environmental contamination.

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

3) COMPOSITION / INFORMATION ON INGREDIENTS:

3.1 Substances:

Not applicable

3.2 Mixtures:

Chemical name	Concentration	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Cymoxanil	300 g/L	57966-95-7	261-043-0	Acute Tox Cat. 4 (H302) Skin Sens. Cat. 1(H317) STOT RE Cat. 2 (H373, blood) Aquatic Acute Cat. 1 (H400) Aquatic Chronic Cat. 1 (H410) Repr. Cat. 2 (H361fd)

4) FIRST AID MEASURES:

Description of First-Aid Measures:

Inhalation:

Skin contact:

Eye contact:

Ingestion:

Most important symptoms and effects, both acute and delayed:

Indication of any immediate medical attention and special treatment needed:

Remove patient to fresh air. 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 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. Seek medical assistance should irritation persist.

Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. If contact lenses are worn, flush eyes with water for 5 minutes, remove contact lenses, and continue flushing eyes with plenty of water. Seek medical assistance immediately should irritation persist.

	<p>Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. If swallowed, do NOT induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately.</p> <p>None known.</p> <p>No specific antidote. Treat symptomatically.</p>
5) FIRE-FIGHTING MEASURES:	
<p>Extinguishing Media: Unsuitable Extinguishing Media:</p> <p>Specific Hazards arising from the substance/mixture:</p> <p>Fire Fighting:</p> <p>Protective clothing:</p>	<p>Water fog, foam, Carbon dioxide or dry chemical.</p> <p>Avoid using water jet.</p> <p>Fire may produce irritating or poisonous vapours containing SO₂, HCL, CO and NO₃. Under certain fire conditions traces of other toxic gases cannot be excluded.</p> <p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. 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. If area is heavily exposed to fire and if conditions permit, let fire burn itself out. Water can be used to cool unaffected containers but must be contained for later disposal.</p> <p>Full protective clothing and self-contained breathing apparatus.</p>
6) ACCIDENTAL RELEASE MEASURES:	
<p>Personal precautions, protective equipment and emergency procedures:</p> <p>Environmental precautions:</p> <p>Methods and material for containment and cleaning up:</p>	<p>Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.</p> <p>Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow to enter drains or watercourses. If contamination of water courses is unavoidable, report to the Police and the Department of Water/Environmental Affairs immediately.</p> <p>Wear protective clothing. Clear area of unprotected personnel and ventilate the area. Sweep up solids without generating dust and spreading. Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Wash area with water and detergent and absorb with further inert material.</p> <p>Dispose of waste safely in an approved landfill.</p>
7) HANDLING & STORAGE:	
<p>Precautions for Safe Handling:</p> <p>Conditions for Safe Storage, including any incompatibilities:</p>	<p>Avoid skin and eye contact and inhalation of spray mist or fumes. Ensure adequate ventilation. Cleaning water should be disposed of in appropriate manner. Wash hands after handling the product and before breaks. Do not eat, drink or smoke during use. Wash contaminated clothing before re-use.</p> <p>Store in original container, tightly closed and in a locked, dry, cool, ventilated area away from foodstuffs, fertilisers and seeds. Keep out of reach of children. Avoid humid air and water.</p>
8) EXPOSURE CONTROL / PERSONAL PROTECTION:	

<p>Appropriate Engineering Controls:</p> <p>Control Parameters: Occupational exposure limits:</p> <p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Emergency eye wash:</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> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Ingredient</th> <th style="width: 25%;">CAS#</th> <th style="width: 25%;">Limit</th> <th style="width: 25%;">Basis</th> </tr> </thead> <tbody> <tr> <td>Cymoxanil</td> <td>57966-95-7</td> <td>2 mg/m³ (8 & 12 hr)</td> <td>TWA</td> </tr> </tbody> </table> <p>Employee must wear appropriate protective (impervious) clothing and half-mask respirator with particle filter to prevent skin contact with this substance.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.</p> <p>The use of safety goggles or face shield 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>	Ingredient	CAS#	Limit	Basis	Cymoxanil	57966-95-7	2 mg/m ³ (8 & 12 hr)	TWA
Ingredient	CAS#	Limit	Basis						
Cymoxanil	57966-95-7	2 mg/m ³ (8 & 12 hr)	TWA						

9) PHYSICAL & CHEMICAL PROPERTIES:


Appearance:	Cream Liquid
Odour:	Characteristic odour
Solubility:	Suspends in water
pH:	4.3
Odour threshold:	Not available
Melting point / Freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point:	Not applicable
Evaporation rate:	Not available
Flammability (solid, gas)	Not flammable
Upper/ lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	1.02
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available

10) STABILITY & REACTIVITY:

Reactivity:	Stable under normal 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:	None known.
Conditions to avoid:	Avoid humid air and water. Avoid temperatures above 49°C. Protect from frost.
Incompatible materials:	None known.
Hazardous decomposition product(s):	Fire may produce harmful combustion products, such as carbon oxides, nitrogen oxides (NOx)

11) TOXICOLOGICAL INFORMATION:

Acute Toxicity:	
Oral:	LD ₅₀ (Rat): male > 760 mg/kg; female > 1 200 mg/kg
Dermal:	LD ₅₀ (Rat): > 2,000 mg/kg

Inhalation:	LC ₅₀ (Rat, 4 hours): >5.006 mg/L air.
Skin Corrosion/Irritation:	Not an irritant, rabbit.
Serious Eye Damage/Irritation:	Not an irritant, rabbit.
Respiratory or Skin Sensitization:	May cause an allergic skin reaction.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive Toxicity:	Suspected of damaging the unborn child.
STOT-SE:	No data available.
STOT-RE:	May cause damage to organs through prolonged or repeated exposure (blood, thymus)
Aspiration Hazard:	No data available.
12) ECOLOGICAL INFORMATION: BASED ON TECHNICAL MATERIAL	
Ecotoxicity:	
Birds:	Oral LD ₅₀ Bobwhite quail & Mallard ducks > 2 250 mg/kg. Dietary LC ₅₀ (8d) Bobwhite quail & Mallard ducks > 5 620 mg/kg diet.
Fish:	LC ₅₀ (96h) Rainbow trout 60 mg/l; Bluegill sunfish 29 mg/l; Common carp 90 mg/l.
Daphnia:	LC ₅₀ (48h) 27 mg/l. EC ₅₀ (48h) 0.054 mg/l.
Algae:	EC ₅₀ (5d) Selenatrum capricornutum 1.21 mg/l.
Worms:	LC ₅₀ (14 d) for earthworms >2208 mg/kg soil.
Bees:	Contact LD ₅₀ (48h) > 25µg/bee; Oral LC ₅₀ (48h) > 1 000 ppm.
Persistence and Degradability:	DT ₅₀ (bare soil) 0.9–9 d
Bio-accumulative Potential:	No data available.
Mobility in Soil:	Cymoxanil is mobile, adsorption K _f 0.29–2.86 in four soil types.
13) DISPOSAL CONSIDERATIONS:	
Waste Disposal:	Waste should not be re-used. Do not contaminate water, food or feed by disposal. Open dumping or burning of this pesticide is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved 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. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Destroy it by perforation and flattening and incinerated at an approved dumpsite.
14) TRANSPORTATION INFORMATION:	
Road Transport ADR / IRD:	UN NUMBER: 3082 UN Proper Shipping name: Environmentally hazardous substance, Liquid, N.O.S. (Cymoxanil) Transport Hazard Class: 9 Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: NA
Maritime Transport IMDG / IMO:	UN NUMBER: 3082 UN Proper Shipping name: Environmentally hazardous substance, Liquid, N.O.S. (Cymoxanil) Transport Hazard Class: 9 Packaging group: III Labelling no: 9 Environmental Hazards: Marine pollutant Special Precautions for User: NA 
Air Transport ICAO / IATA:	UN NUMBER: 3082 UN Proper Shipping name: Environmentally hazardous substance, Liquid, N.O.S. (Cymoxanil) Transport Hazard Class: 9 Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: NA

Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	No transport in bulk according to the IBC Code.
15) REGULATORY INFORMATION:	
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 8 of this safety data sheet.
16) OTHER INFORMATION:	
<p>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.</p> <p>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 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.</p> <p>MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSES OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.</p> <p>Date of issue: 27/11/2014 Date of revision: 20/06/2019</p> <p>Abbreviations and acronyms:</p> <ol style="list-style-type: none"> 1. CAS number: Chemical Abstracts Service number. 2. CLP: Classification, Labelling, Packaging. 3. LD₅₀: Lethal Dose for 50% of the test population. 4. LC₅₀: Lethal Concentration for 50% of the test population. 5. DT₅₀: Half-life. 6. GHS: Globally Harmonised System (of Classification and Labelling of Chemicals). 7. STOT: Specific Target Organ Toxicity. 8. RE: Repeated Exposure. 9. TWA: Time Weighted Average. <p>Literature References:</p> <ul style="list-style-type: none"> • GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html • ECHA: https://echa.europa.eu/search-chemicals 	