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Document no: Effective date: Revision date (version): Product Code:

180UN May 2017 June 2022 (7) HSERIES240EC/UN

SAFETY DATA SHEET

I. CHEMICAL		ND COMPANY	, ,
IDENTIFICAT	ION		May be fatal if swallowed and enters airways
-			May damage fertility or the unborn child
Product Name:	SERIES 240 EC		May cause genetic defects.
Other identifier:	Clethodim 240	EC	May cause cancer.
ecommended us			Label elements:
estrictions on use	e: Agriculture		
Supplier:	Universal Crop Pro	otection (Pty) Ltd.	
	Co. Reg. No.: 1983	/008184/07	
	PO Box 801,		
	Kempton Park, 1620), South Africa	
Telephone:	(011) 3962233		
	(011) 3964666		
Nebsite:	www.villacrop.co.za		Signal word: Danger.
			Hazard statements:
Emergency telepho			H303: May be harmful if swallowed.
	pill emergency no		H304: May be fatal if swallowed and enters airway
Hazcall24)		86 044 4411	H316: Causes mild skin irritation.
Client: Villa Crop P			H317: May cause an allergic skin reaction.
Griffon Poison Information Centre +27 82 446 8946			H318: Causes serious eye damage.
Client: Villa Crop P			H332: Harmful if inhaled.
	ncy telephone nun		H340: May cause genetic defects.
Griffon Poison Information Centre +27 82 446 8946			H350: May cause cancer.
Poisons Information	Centre +27	861 555 777	H360D: May damage the unborn child.
			H412: Harmful to aquatic life with long lasting effe
2. HAZARDS IDEN	TIFICATION		Precautionary statements:
LIN GHS Regula	tion EC 1272/2008	ELL-GHS/CLP1	P203: Obtain, read and follow all safety instructio
EU & SANS 10234			use.
Hazard classes	Hazard	H-statements	P261: Avoid breathing dust, fume, gas, mists, va
nazara olacece	categories	in olatomonio	spray.
Health			P264+P265: Wash hands thoroughly after han
	Acute Toxicity 5	H303	not touch eyes.
	Skin Irritation 3	H316	P271: Use only outdoors or in a well-ventilated ar P272: Contaminated work clothing should not b
Dermal	Skin Sensitisation	H317	8
	1		out of the workplace. P273: Avoid release to the environment.
Eye	Eye Damage 1	H318	P273: Avoid release to the environment. P280: Wear impervious rubber gloves an
Inhalation	Acute Toxicity 4	H332	protective clothing and chemical safety goggles.
	Germ cell	H340	P301+P316: IF SWALLOWED: Get emergency
Mutagenicity	mutagenicity 1B		help immediately.
	Carcinogenicity	H350	P302+P352: IF ON SKIN: Wash with plenty of v
Carcinogenicity	1B		non-abrasive soap.
Reproductive	Reproductive	H360D	P304+P317+P340: IF INHALED: Remove perso
toxicity	Toxicity 1B		air and keep comfortable for breathing. Get medic
2	Aspiration Toxicity	H304	P305+ P317+P354+P338: IF IN EYES: Immedia
Aspiration	1		with water for several minutes. Remove contact
Environment		·	present and easy to do. Continue rinsing. Ge
Aquatic chronic	Aquatic Chronic 3	H412	help.
Aquatic chronic	Aquatic Chronic 3	H412	help. P318: IF exposed or concerned, get medical advi

The most important adverse effects:

Physiochemical effects: None known Human health effects: May be harmful if swallowed. Harmful if inhaled. Causes mild skin irritation. May cause an allergic skin reaction.

P405: Store locked up.

help.

P331: Do NOT induce vomiting.

P501: Dispose of content/container to suitable landfill in accordance with local regulations.

P333+P317: If skin irritation or rash occurs: Get medical



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Special labelling of certain mixtures: None known. Other hazards: None known. Toxicity: Classification according to GHS: Category 4				 Skin: Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists. Eyes: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue
3. COMPOSITION / INFORMATION ON INGREDIENTS Substance/Mixture: Mixture Composition:				rinsing. Seek medical attention immediately. Ingestion: Seek medical attention or call a poison contri- centre for treatment advice. Do not induce vomiting product contains aromatic solvent. Do not give
Chemical Name	CAS	Conc. (m/v)	Classification EC 1272/2008	anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.
Clethodim	99129-21- 2	24 %	Acute Toxicity 4 (H302) Skin Sensitisation 1 (H317) Aquatic Chronic 3 (H412)	Anticipated acute effects: Causes serious eye damage. May be fatal if swallowed and enters airways. Anticipated delayed effects: May cause cancer. May cause genetic defects.
N-methyl-2- Pyrrolidone	872-50-4	< 10%	Skin Irritation 2 (H315) Eye Irritation 2 (H319) STOT SE 3 (H335) Reproductive Toxicity 1B	May damage the unborn child. Most important symptoms/effects: None known. Advice to physician: Treat symptomatically and supportively. No specific antidote known. 5. FIRE-FIGHTING MEASURES
Naphtha (heavy aromatic solvent)	64741-65- 7	< 40 %	(H360D) Aspiration Toxicity 1 (H304) Germ cell mutagenicity 1B (H340) Carcinogenicity 1B (H350)	Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires. Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers. Specific hazards: May emit toxic fumes of hydrogen chloride (HC ℓ) as well as carbon, nitrogen or sulphur oxides if involved in fires or exposed to extreme heat.
Liquid Petroleum	64742-94- 5	< 40 %	Aspiration Toxicity 1 (H304)	Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate
Calcium dodecylben zene sulfonate	26264-06- 2	< 10 %	Acute Toxicity 4 (H302) Skin Irritation 2 (H315) Eye Damage 1 (H318) Aquatic Chronic 4 (H413)	all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later
Pesticide Emulsifier 1601 4. FIRST AID	99734-09- 5	< 10 %	Aquatic Chronic 3 (H412)	 disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site. Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full
			6	protective gear.

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and immediately consult a doctor.

Inhalation: Remove from exposure area to fresh air immediately. If breathing has stopped, perform mechanical artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. **Get medical attention immediately.**

Personal Precautions: Avoid contact with eyes. Harmful if inhaled. Do not breathe in spray mist or vapours. Ventilate area of spill or leak, especially in contained areas.



Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be harmful to aquatic organisms and may cause long-term adverse effects. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by diking area with sand or earth.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Harmful if swallowed and enters airways. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used. **Storage:**

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well- ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Fluorinated plastic containers.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
N-methyl-2-	100 ppm	400 mg/m ³	OEL
pyrrolidone	(TWA)	(TWA)	

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved airpurifying respirator with cartridges/canisters approved for organic vapours.

Hand Protection: The use of chemically protective gloves is recommended to prevent against skin contact.

Eye Protection: Chemical safety goggles or a face shield must be used to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee must wear appropriate protective clothing; rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Emergency eyewash: 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 AND CHEMICAL PROPERTIES

Appearance: Amber to brown, Emusifiable concentrate. Odour: Aromatic odour. pH: 4.0 – 6.5. Melting point: Not available. Freezing Point: 0 °C. Boiling Point: Not available. Flash Point: 65 °C. Flammability: Combustible. Upper/lower explosion limits: Not available. Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available. Density: 0.96 – 0.98 g/cm³. Solubility: Emulsifies in water.



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OLNILO 240 LU		JAILIIL	
n-octanol/water partition coefficient: Not available. Auto-ignition temperature: Not available.	ECOTOXICITY DA	ATA:	
Decomposition temperature: Not available. Viscosity: Not available.	LC ₅₀ (96 h)	Rainbow trout Bluegill sunfish	>67 mg/ℓ >120 mg/ℓ
10. STABILITY AND REACTIVITY	<u>Daphnia:</u> LC ₅₀ (48 h)		>120 mg/ℓ
Chemical Stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme	Algae: EC ₅₀ (5d)	Selenastrum capricornutum	>12 mg/ℓ
temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight or near sources of heat. Reactivity: None known.	Birds: Acute oral LD ₅₀ Dietary LC ₅₀ Bees:	Bobwhite quail Mallard ducks	>2000 mg/kg >6000 mg/kg diet
Possibility of Hazardous Reactions: Will not occur. Conditions to Avoid: Extreme heat, sources of ignition or exposure to flames.	$ LD_{50} \text{ ora}_{i} $ $ LD_{50} \text{ contact} $ $ Worms: $		>100 µg/bee >100 µg/bee
Incompatible Materials: Strong oxidizers and strong acids.	LC ₅₀	Earthworms	454 mg/kg soil
Hazardous Decomposition Products: Thermal decomposition: When heated, may give off toxic fumes of oxides of nitrogen, sulphur, carbon or halogenated compounds. Hazardous products of combustion: Fire may produce hydrogen chloride (HC ℓ).	sulfoxide. ENVIRONMENTA Aerobic DT ₅₀ in soil Persistence and c		persistent.
11. TOXICOLOGICAL INFORMATION	Mobility in soil: N	ot determined.	
ACUTE TOXICITY: Calculated according to GHS Oral LD ₅₀ rat > 4200 mg/kg Dermal LD ₅₀ rabbit > 17 000 mg/kg Inhalation LC ₅₀ rat > 1.6 mg/L Skin Irritation/Corrosion: Causes mild irritation. Eye Damage/Irritation: Causes serious eye damage. Skin Sensitization: Not classified. Respiratory Sensitization: Not classified. Reproductive cell mutagenicity: May cause genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: May damage the unborn child. Specific target organ toxicity – single exposure: Not classified. Specific target organ toxicity – repeated exposure: Not classified. Aspiration hazard: May be fatal if swallowed and enters airways. Chronic Effects (other targets e.g. developmental): Not classified. POTENTIAL ADVERSE EFFECTS: Inhalation: Harmful if inhaled. Skin contact: Causes mild skin irritation. Eye contact: Causes severe eye damage. Ingestion: May be harmful if swallowed.	Other adverse effects: Not determined. 13. DISPOSAL CONSIDERATIONS Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant. Container: TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages 14. TRANSPORT INFORMATION		
12. ECOLOGICAL INFORMATION This product is harmful to aquatic life with long lasting	according to UN C	Drange Book and ir	hazardous material iternational transport
effects.	- · ·	I), ADR (road) and I nental Precautions	

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

15. REGULATORY INFORMATION

Safety,healthandenvironmentalregulations/legislation for the mixture:OHSA1993RegulationsforHazardousChemicalSubstances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None. Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 100 & 200 millilitres and 1, 5, 10, 20, 25 & 200 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.

Additional H statements (formulants):

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

H413: May cause long lasting effects to aquatic life.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.

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