

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

074UM January 2020 May 2022 (1) HMETO/Ú

SAFETY DATA SHEET

I. CHEMICAI			
IDENTIFIC		COMPANY	Signal word: Warning.
			Hazard statements:
Product Name:	METOLACHLOR	960 EC	H302: Harmful if swallowed
Other identifier:	Metolachlor 960 g	10	H332: Harmful if inhaled
Recommended	use: Herbicide		H317: May cause an allergic skin reaction
Restrictions on	use: Agriculture		H316: Causes mild skin irritation
			H318: Causes serious eye damage
Supplier:	Universal Crop Protec		H400: Very toxic to aquatic life
	Co. Reg. No.: 1983/008 PO Box 801,	3184/07	H410: Very toxic to aquatic life with long lasting effects
	Kempton Park, 1620, Se	outh Africa	Precautionary statements:
Telephone:	(011) 396 2233		P261: Avoid breathing dust, fume, gas, mists, vapours of
ax:	(011) 396 4666		spray.
Nebsite:	www.villacrop.co.za		P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
	phone numbers:		P270: Do not eat, drink or smoke when using this product
	/ Spill emergency no:		P271: Use only outdoors or in a well-ventilated area.
Hazcall24)	+27 86	044 4411	P272: Contaminated work clothing should not be allowed
<u></u>	— · · · ·		
Client: Villa Cro			out of the workplace.
Griffon Poison Inf	formation Centre +27 82		out of the workplace. P273: Avoid release into the environment.
Griffon Poison Inf Client: Villa Crop	formation Centre +27 82 o Protection)	446 8946	out of the workplace. P273: Avoid release into the environment. P280: Wear impervious rubber gloves and boots
Griffon Poison In Client: Villa Crop Poisoning Emer	formation Centre +27 82 o Protection) gency telephone numbe	446 8946 e rs :	out of the workplace. P273: Avoid release into the environment. P280: Wear impervious rubber gloves and boots protective clothing and chemical safety goggles.
Griffon Poison In Client: Villa Crop Poisoning Emer	formation Centre +27 82 o Protection) gency telephone number formation Centre +27 82	446 8946 e rs :	out of the workplace. P273: Avoid release into the environment. P280: Wear impervious rubber gloves and boots protective clothing and chemical safety goggles. P301+P317: IF SWALLOWED: Get medical help. P302+P352: IF ON SKIN: Wash with plenty of water and
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Griffon Poison Inf Client: Villa Crop Poisoning Emer Griffon Poison Inf Poisons Informati 2. HAZARDS IDI UN GHS, Reg	formation Centre +27 82 p Protection) gency telephone number formation Centre +27 82 ion Centre +27 86 ENTIFICATION ulation EC 1272/2008 [E	446 8946 ers: 446 8946 1 555 777	out of the workplace. P273: Avoid release into the environment. P280: Wear impervious rubber gloves and boots protective clothing and chemical safety goggles. P301+P317: IF SWALLOWED: Get medical help. P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap. P304+P340: IF INHALED: Remove person to fresh ai and keep comfortable for breathing. P305+P317+P354+P338: IF IN EYES: Immediately rinse
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Griffon Poison Inf Client: Villa Crop Poisoning Emer Griffon Poison Inf Poisons Informati 2. HAZARDS IDE UN GHS, Reg EU & SANS 102 Hazard classes	formation Centre +27 82 p Protection) gency telephone number formation Centre +27 82 ion Centre +27 86 ENTIFICATION ulation EC 1272/2008 [E 234:2008	446 8946 ers: 446 8946 1 555 777	out of the workplace. P273: Avoid release into the environment. P280: Wear impervious rubber gloves and boots protective clothing and chemical safety goggles. P301+P317: IF SWALLOWED: Get medical help. P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap. P304+P340: IF INHALED: Remove person to fresh ai and keep comfortable for breathing. P305+P317+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, i present and easy to do. Continue rinsing. Get medica
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Griffon Poison Inf Client: Villa Crop Poisoning Emer Griffon Poison Inf Poisons Informati 2. HAZARDS IDF UN GHS, Reg EU & SANS 102 Hazard classes Health Oral Dermal Eye Inhalation	formation Centre +27 82 o Protection) formation Centre +27 82 formation Centre +27 82 formation Centre +27 86 ENTIFICATION ulation EC 1272/2008 [E 234:2008 Hazard categories Acute Toxicity 4 Skin Irritation 3 Skin Sensitisation 1 Eye Damage 1 Acute Toxicity 4 Acute Toxicity 4	446 8946 ers: 446 8946 1 555 777 EU-GHS/CLP] H- statements H302 H316 H317 H318	 out of the workplace. P273: Avoid release into the environment. P280: Wear impervious rubber gloves and boots protective clothing and chemical safety goggles. P301+P317: IF SWALLOWED: Get medical help. P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap. P304+P340: IF INHALED: Remove person to fresh at and keep comfortable for breathing. P305+P317+P354+P338: IF IN EYES: Immediately rinst with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical help. P330: Rinse mouth. P332+P333+P317: If skin irritation occurs: Get medicat help. P391: Collect spillage. P501: Dispose of content/container to suitable landfill in

nost important adverse effects: Physiochemical effects: None known

Human health effects: Harmful if swallowed. Harmful if inhaled. May cause and allergic skin reaction. Causes mild skin irritation. Causes serious eye damage.

Label elements:



3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Metolachlor TC	51218- 45-2	96 %	Skin sensitization 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Phenylsulphonate	26264- 06-2	< 10%	Acute toxicity 4 (H302)



			Skin Irritation 2 (H315) Eye damage 1 (H318) Aquatic Chronic 4 (H413)
Ethoxylated	99734-	< 10%	Aquatic Chronic 3
phenols	09-5		(H412)

4. FIRST AID MEASURES

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.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs or if patient feels unwell after inhalation.

Skin: Remove contaminated clothing and shoes. 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 rinsing. **Seek medical attention immediately.**

Ingestion: Seek medical attention or call a poison control centre for treatment advice. **Do not induce vomiting** unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects:

Harmful if swallowed. Harmful if inhaled. May cause and allergic skin reaction. Causes mild skin irritation.

Causes serious eye damage.

Anticipated delayed effects: None known.

Most important symptoms / effects: None known.

Advice to physician: Treat symptomatically and supportively. No specific antidote known.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog.

Unsuitable Extinguishing Media: Water

Specific hazards: Hazards or hazardous products arising from combustion.

Special fire-fighting procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Remain upwind of fire. Avoid inhaling hazardous vapours and fumes from burning materials.

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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 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 protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not breathe in spray mist. 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 as very toxic to aquatic organisms and will cause long-term adverse effects in the aquatic environment. 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: May be harmful if swallowed. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. 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,



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drinking, chewing gum, smoking, using the toilet or Odour: Sweet odour. applying cosmetics. Worker should shower at the end of Odour threshold: Not available. each workday. Launder all clothing before it is re-used. pH (1% aqueous dilution): 5.3. Storage: Melting point: Not available. Conditions for safe storage: Keep under lock and key Freezing Point: Not available. and out of reach of unauthorised persons, children and Boiling Point: 100 °C / 0.001 mm Hg. animals. Store in its original, labelled container, tightly Flash Point: > 100 °C. Flammability: Not flammable. closed in an isolated, dry, cool and well- ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, Upper / lower explosion limits: Not available. feed and water supplies. Avoid cross contamination with Vapour Pressure (mm Hg): Not available. other pesticides and fertilisers. Relative Vapour Density: Not available. Incompatible substances and mixtures: Refer to **Density / Relative density:** 1.107 g/cm³ at 20 °C. Solubility: Emulsifies in water. product label. n-octanol / water partition coefficient: Not available. Packaging material: Plastic fluorinated containers. Auto-ignition temperature: Not available. PERSONAL EXPOSURE CONTROLS AND 8. Decomposition temperature: Not available. PROTECTION Viscosity: 4,2 mPa at 25 °C. Permissible concentration **10. STABILITY AND REACTIVITY** No occupational exposure limits have been determined for the significant ingredients in this product. Chemical stability: The product is stable for two years at ambient temperature and pressure, under normal storage **Engineering Controls:** and handling conditions. Avoid storage under extreme It is essential to provide adequate ventilation. The temperatures and conditions. Store below 50 °C, measures appropriate for a particular worksite depend on preferably below 30 °C, and not for prolonged periods in how this material is used and on the extent of exposure. direct sunlight. Local Exhaust: Provide general or local exhaust Reactivity: None known. ventilation systems to maintain airborne concentrations Possibility of hazardous reactions: Unlikely to occur. below OELs or other specified exposure limits. Local Conditions to avoid: Extreme heat or exposure to exhaust ventilation is preferred. Ensure that control flames. systems are properly designed and maintained. Comply Incompatible materials: Strong oxidizers, strong bases, with occupational safety, environmental, fire and other strong reducing agents. applicable regulations. Hazardous decomposition products: Alcohols. carbon **Personal Protective Equipment:** monoxide and carbon dioxide may form under burning Respiratory Protection: Use a NIOSH approved, airconditions or with incomplete combustion. purifying respirator with cartridges / canisters approved for organic vapours. This product is toxic if inhaled. **11. TOXICOLOGICAL INFORMATION** Hand Protection: The use of chemically protective impervious gloves is recommended to prevent against **ACUTE TOXICITY:** skin contact. **Oral LD**₅₀ (24h) > 1100mg/kg (rat) Eye Protection: The use of chemical safety goggles is **Dermal LD**₅₀ > 5600 mg/kg (rabbit) recommended to prevent against eye contact. This Inhalation LC₅₀ (4h) > 2.24 mg/ ℓ (rat) product causes serious eye damage. Contact lenses Skin Irritation / Corrosion: Causes mild skin irritation. are not protective eye devices. Eye Damage / Irritation: Causes serious eye damage. Skin and Body Protection: Employees must wear Skin Sensitization: May cause an allergic skin reaction. appropriate protective impervious clothing, rubber boots, Respiratory Sensitization: Not classified. hat and equipment to prevent repeated or prolonged skin Reproductive cell mutagenicity: Not classified. contact with this substance. Do not wear leather clothing. Carcinogenicity: Not classified. Emergency eyewash: Where there is any possibility that Reproductive toxicity: Not classified. an employee's eyes may be exposed to this substance, Specific target organ toxicity - single exposure: Not the employer should provide an eye wash fountain or classified. appropriate alternative within the immediate work area for Specific target organ toxicity - repeated exposure: emergency use. Not classified. Aspiration hazard: Not classified. 9. PHYSICAL AND CHEMICAL PROPERTIES Chronic Effects: Not classified. Appearance: Colourless to light tan, clear emulsifiable POTENTIAL ADVERSE EFFECTS: liquid. Inhalation: Not classified.



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.

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ngestion: Not classified.			Container: Emptied containers retain product residues.
			Do not re-use the empty container for any other purpose.
12. ECOLOGICAL	INFORMATION		Triple rinse empty containers by inverting the empty
This product is your	This product is very toxic to aquatic organisms.		container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to
This product is very	loxic to aquatic orga	nisms.	a drip. Thereafter, rinse the container three times with a
ECOTOXICITY DA	тл٠		volume of water equal to a third of that of the container.
Metolachlor (Activ			Add the rinsings to the contents of the spray tank before
Fish:	e ingreaterit,		destroying the container in the prescribed manner.
LC ₅₀ (96 h)	Rainbow trout	3.9 mg/ℓ	Destroy the container by perforating and flattening and
	Bluegill sunfish	10 mg/ <i>t</i>	dispose of through an approved waste dump site,
	Carp	4.9 mg/ <i>l</i>	incineration plant or recycling company. Observe all
Daphnia:	I I	5	labelled safeguards until container is destroyed.
LC ₅₀ (48 h)		25 mg/ℓ	
Algae:		0	14. TRANSPORT INFORMATION
EC ₅₀ (72 h)	Scenedesmus	0.1 mg/ℓ	
	subspicatus		UN Number: 3082
Birds:			Road Transport ADR / ORD: Class: 9
Acute oral LD ₅₀	Mallard ducks	>2150 mg/kg	Packaging group:
	Bobwhite quail	>2150 mg/kg	UN Proper Shipping Name: ENVIRONMENTALLY
Dietary LC ₅₀ (8d)	Mallard ducks	>10000 mg/kg	HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	Bobwhite quail	diet >10000 mg/kg	(Metolachlor 960 g/ ℓ)
		diet	Maritime Transport IMDG / IMO:
Bees:		GIOL	Class: 9
LD ₅₀ contact		>110 µg/bee	Packaging group: III
LD ₅₀ oral		>110 µg/bee	UN Proper Shipping Name: ENVIRONMENTALLY
Worms:			HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
LC ₅₀ (14d)	Earthworms	140 mg/kg soil	(Metolachlor 960 g/t)
			Marine pollutant (Y/N): Yes
ENVIRONMENTAL Deceder informed			Air Transport IATA / ICAO: Class: 9
	tion for the active in abolites are derivative		Packaging group: III
sulfonic acids.			UN Proper Shipping Name: ENVIRONMENTALLY
	n involves natural pr	oduct conjugation	HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	/l group, and hydro		(Metolachlor 960 g/ℓ)
	ether group. Fina		Special / Environmental Precautions: Wedge drums
polar, water-soluble	e, and non-volatile.		tightly to avoid movement.
Persistence and degradability: DT ₅₀ in soil c. 20 d) in soil c. 20 d	Transport in bulk: Refer to MARPOL 73/78, Annex II
(field).			and the IBC code.
	potential: Not deterr	nined.	
Mobility in soil: Ko	cts: Not determined		15. REGULATORY INFORMATION
Juiei auveise elle			Cofety boolth and environmental manufations (
			Safety, health and environmental regulations / legislation for the mixture:
13. DISPOSAL CONSIDERATIONS			OHSA 1993 Regulations for Hazardous Chemical
Waste: Open dun	nping or burning of	this pesticide is	Substances.
	resulting from the us		Relevant information regarding restrictions: None.
	or re-processed. Nev		EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)
	product into public		Other national regulations: None.
	er of run-off or se		Chemical Safety Assessment carried out? No
	ontaminate rivers, da the product or		
WATEL SOUTCES MU		USED CONVINERC	

16. OTHER INFORMATION

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



METULAUILUN 900 EU
Other hazard statements, abbreviations and
explanations:
H315: Causes skin irritation.
H412: Harmful to aquatic life with long lasting effects.
H413: May cause long lasting harmful effects to aquatic
life.
IATA: International Air Transport Association.
IBC: International Bulk Chemical.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization.
LD ₅₀ value: The median lethal dose or the amount of a
toxic agent that is sufficient to kill 50 percent of a
population within a certain period of time.
OEL/RL: Occupational exposure limit-recommended limit.
TWA: Time-weighted average – The average exposure
over a specified period, usually a nominal eight hours.
ST/STEL: Short-term exposure limits.
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

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.

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For detailed information on revisions, contact the Registration holder.

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