

Country: RSA, NAM, BOT, ZAM, MOZ
Language: English
Version: 1

SDS Number: 000034
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Print Date: 2024-05-21

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier				
Product form		Mixtures		
Trade name		Garlon® 4		
Product code		50ml 18116 (6001379012674)		
Registration Number		L3249 / N-AR0133 / W130206		
SDS Number		000034		
1.2. Relevant identified uses of the substance or mixture and uses advised against				
1.2.1. Relevant identified uses				
Main use category		Tree and Shrub Killer.		
Industrial/Professional use spec		Home and Garden.		
Use of the substance/mixture		Selective weedkiller.		
1.2.2. Uses advised against				
		See product label for restrictions.		
1.3. Details of the supplier of the safety data sheet				
		Agro-Serve (Pty) Ltd 15 Diesel Road, Isando, 1600, South Africa PO Box 1189, Isando, 1600, South Africa		
Telephone		+27 861 333 586 08h00 – 17h00 Monday to Friday		
Email		info@efekto.co.za		
Website		www.efekto.co.za		
1.4. Emergency telephone number				
Country	Organisation/Company	Address	Emergency number	Comment
Poisons Centre				
South Africa	Griffon Poisons Centre		082 446 8946	Dr Gerhard H Verdoorn
Spillage				
South Africa	Spill Tech		086 100 0366	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture			
Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures			
	Oral Acute Tox.: Category 4: H302 Harmful if swallowed.		
	Aspiration hazard: Category 1: H304 May be fatal if swallowed and enters airways.		
	Skin irritation: Category 1: H317 May cause an allergic skin reaction.		
	Specific target organ toxicity, repeated exposure: Category 2: H373 May causes damage to organs through prolonged or repeated exposure.		
	Acute aquatic toxicity: Category 1: H400 Very toxic to aquatic life.		
	Chronic aquatic toxicity: Category 1: H410 Very toxic to aquatic life with long lasting effects.		
See Section 16 for the full text of the H statements declared above.			
See Section 11 for more detailed information on health effects and symptoms.			
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272/2008 [CLP]			
	  		
Hazard pictograms:	GHS07	GHS08	GHS09
Hazardous components which must be listed on the label:	• Triclopyr-2-butoxyethyl ester; Kerosene		
CLP Signal word:	Danger		
Hazard statements:	H302: Harmful if swallowed.		
	H304: May be fatal if swallowed and enters airways.		
	H317: May cause an allergic skin reaction.		
	H373: May causes damage to organs through prolonged or repeated exposure.		
	H410: Very toxic to aquatic life with long lasting effects.		
Precautionary statements:			
General Statements:	P101: If medical advice is needed, have product container or label at hand.		
	P102: Keep out of reach of children.		
	P103: Read carefully and follow all instructions.		
Prevention Statements:	P260: Do not breathe mist/vapours/spray.		
	P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.		

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Response Statements:	P302 + P352: IF ON SKIN: Wash with plenty of water
	P301 + P310 + P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
	P314: Get medical attention if you feel unwell.
Storage Statements:	P410: Protect from sunlight.
Disposal Statement:	P501: Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.1. Substances					
		Emulsifiable Concentrate (EC)			
		Biocidal product			
3.2. Mixtures				Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Chemical Name	CAS-No.	EC – Number	Conc. % by weight	Classification	Warning Symbols
Triclopyr-2-butoxyethyl ester (Hazard classification of this material is based on the worst possible case)	64700-56-7	265-024-8	61.2 %	Acute Tox. 4: H302 Skin Sens. 1: H317 STOT RE 2: H373 Aquatic Acute 1: H400 Aquatic Chronic 1: H410	
Kerosene (Hazard classification of this material is based on the worst possible case)	112-05-0	203-931-2	> 30.0 – < 40.0 %	Asp. Tox. 1: H304 Skin Irrit. 2: H315 STOT SE 3: H336 Aquatic Chronic 2: H411	
Benzenesulfonic Acid, MonoC10-13-branched Alkyl Derivs., compds. with N,N-Dimethyl-1,3-propanediamine (Hazard classification of this material is based on the worst possible case)	90194-53-9	290-665-5	< 5.0 %	Skin Irrit. 2: H315 Eye Dam/Irr. 1: H318 Aquatic Chronic 2: H411	
Other ingredients (non-hazardous) to 100%		Balance		100 %	
Further information					
Isopropylamine salt of glyphosate	64700-56-7	M-Factor: chronic 1			
For the full text of the Hazard statements mentioned in this Section, see Section 16.					

SECTION 4: First aid measures

4.1. Description of first aid measures	
General Advice	When possible, have the product container or label with you when calling a poison control centre or doctor or going for treatment.
First-aid measures after inhalation	Move victim to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control centre or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.
First-aid measures after skin contact	Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.
First-aid measures after eye contact	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control centre or doctor for treatment advice. Suitable emergency eye wash facility should be available in work area.
First-aid measures after ingestion	Immediately call a poison control centre or doctor. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
4.2. Most important symptoms and effects, both acute and delayed	Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
4.3. Indication of any immediate medical attention and special treatment needed	

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Skin contact may aggravate preexisting dermatitis. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media	
5.1.1. Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.1.2. Unsuitable	Water jet.
5.2. Special hazards arising from the substance or mixture	
	Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
5.3. Advice for firefighters	
	Special protective equipment for fire-fighters Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Consider feasibility of a controlled burn to minimize environment damage. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS. Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.
5.3. Further information	
	In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Emergency procedures	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
	Do not allow to enter soil, waterways or wastewater canal.
6.3. Methods and material for containment and cleaning up	
For containment	Collect spillage.
Methods for cleaning up	For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Avoid raising dust. Collect waste in suitable containers, which can be labelled and sealed. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.
Other information	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.
Hygiene measures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Store in original container. Keep away from direct sunlight. Protect from freezing.
Storage temperature	>0°C <40°C

7.3. Specific end use(s)

	Refer to the label and/or leaflet.
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SECTION 8: Exposure controls/personal protection

Control parameters

Components	CAS-No.	Exposure limit(s)	Type of exposure limit	Source
Triclopyr-2-butoxyethyl ester	64700-56-7	2 mg/m ³	TWA	Dow IHG
Kerosene	112-05-0	200 mg/m ³	TWA	ACGIH
Kerosene	112-05-0	100 mg/m ³	TWA	Dow IHG

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Appropriate engineering controls:	In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply. Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
Hand protection:	Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection:	Safety glasses with side-shields (frame goggles) (e.g. EN 166).
Skin and body protection:	Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before reuse, or use disposable equipment (suits, aprons, sleeves, boots, etc.) Wear as appropriate: impervious protective suit.
Respiratory protection:	A combination gas, vapor and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.
	
General protective measures:	Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.
Environmental exposure controls:	Avoid release to the environment. For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

1. Physical state	Liquid
2. Colour	Yellow

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3. Odour	Gasoline-like
4. Odour threshold	No data available
5. Melting point / Freezing point	No data available
6. Boiling point or initial boiling point and boiling range	No data available
7. Flammability	Non-flammable
8. Lower and upper explosion limit	Not applicable
9. Flash point	238 °C
10. Auto ignition temperature	closed cup 65,5 °C EC Method A9
11. Decomposition temperature	No data available
12. pH	6,4 1% pH Electrode 5,3 at 100 g/L pH Electrode
13. Kinematic viscosity	16,4 mPa.s at 20 °C
14. Solubility water	Completely miscible
15. Partition coefficient octanol / water (log value)	No data available
16. Vapour pressure	No data available
17. Density Solubility	Not applicable
18. Relative density	1,079 at 23 °C / 4 °C OECD 109
19. Particle characteristics	Not applicable
9.2. Other information	
	No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	
	Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.
10.2. Chemical stability	
	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	
	No hazardous reactions when stored and handled according to prescribed instructions.
10.4. Conditions to avoid	
	Extremes of temperature and direct sunlight. Incompatible materials for storage: galvanised steel, unlined mild steel.
10.5. Incompatible materials	
	Store only in the original container.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Formulated Product	
LD50 oral rat	LD50 male rat, 1 338 mg/kg
LD50 dermal rat	LD50 male and female rabbit, > 2 000 mg/kg
LC50 inhalation rat (mg/l)	LC50 rat, > 5.2 mg/L
Skin irritation	Brief contact may cause slight skin irritation with local redness. May cause drying and flaking of the skin. Repeated contact may cause severe skin irritation with local redness and discomfort.
Eye irritation	May cause pain disproportionate to the level of irritation to eye tissues. May cause slight eye irritation. Corneal injury is unlikely.
Sensitisation	Has caused allergic skin reactions when tested in guinea pigs. With the dilute mix, no allergic skin reaction is expected.
STOT-single exposure	Evaluation of available data suggests that this material is not an STOT-SE toxicant.
STOT-repeated exposure	In animals, effects have been reported on the following organs: Kidney. Liver. For the solvent(s): In animals, effects have been reported on the following organs after exposure to aerosols: Central nervous system. Respiratory tract.
Aspiration hazard	May be fatal if swallowed and enters airways.
Assessment mutagenicity	For the active ingredient(s): For the solvent(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.
Assessment carcinogenicity	In a lifetime animal dermal carcinogenicity study, an increased incidence of skin tumors was observed when kerosene was applied at doses that also produced skin irritation. This response was similar to that produced in skin by other types of chronic chemical/physical irritation. No increase in tumors was observed when non-irritating dilutions of kerosene were applied at equivalent doses, indicating that kerosene is unlikely to cause skin cancer in the absence of long-term continued skin irritation. Active ingredient did not cause cancer in laboratory animals.

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Assessment toxicity to reproduction	For similar active ingredient(s). Triclopyr. In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. For the solvent(s): Limited data in laboratory animals suggest that the material does not affect reproduction.
Assessment developmental toxicity	For the active ingredient(s): Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.
Further information	N/A

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Very toxic to aquatic life with long lasting effects.

Formulated Product

LC50 fish 1	Oncorhynchus mykiss (Rainbow trout)) 0.984 mg/l static test; Exposure time: 96 h
EC50 Daphnia 1	Daphnia magna (Water flea)) 0.35 mg/l static test; Exposure time: 48 h
ErC50 (algae) 1	Selenastrum capricornutum (green algae): 10.6 mg/l Exposure time: 72 h
Bees LD50 (oral)	> 230 µg / bee
Bees LC50 (contact)	> 230 µg / bee
Earthworm LC50	Eisenia fetida (earthworms): > 2 552 mg/kg dry soil
Birds Oral LD50	Colinus virginianus (Bobwhite quail): 1 350 mg/kg Exposure time: 5 d
Soil organism toxicity, microorganisms	27 g/ha, 28 days: Less than 25% effect on nitrogen or carbon transformation processes in soil.

12.2. Persistence and degradability

Persistence and degradability
 Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions

12.3. Bioaccumulative potential

Triclopyr-2-butoxyethyl ester	Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Partition coefficient: n-octanol/water(log Pow): 4,62 Bioconcentration factor (BCF): 110 Fish
Kerosene	Bioaccumulation: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7). Partition coefficient: n-octanol/water(log Pow): 6,23 Bioconcentration factor (BCF): 207,7
Benzenesulfonic Acid, Mono-C10-13-branched Alkyl Derivs., compds. with N,N-Dimethyl-1,3- propanediamine	No relevant data found.

12.4. Mobility in soil

Triclopyr-2-butoxyethyl ester	Calculation of meaningful sorption data was not possible due to very rapid degradation in the soil. For the degradation product: Triclopyr. Potential for mobility in soil is very high (Koc between 0 and 50).
Kerosene	Potential for mobility in soil is slight (Koc between 2000 and 5000). Partition coefficient (Koc): 4818
Benzenesulfonic Acid, Mono-C10-13-branched Alkyl Derivs., compds. with N,N-Dimethyl-1,3- propanediamine	No relevant data found.

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.
Contaminated packaging	Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / AND / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
				
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr), 9, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr) 9, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
9	9	9	9	9
 	 	 	 	 
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Registration No. L3249 / N-AR0133 / W130206

This chemical is a registered pesticide product and is subject to certain labelling requirements under law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label.

Hazard statements:	Do not inhale fumes, dust or spray mist.
	Wash contaminated clothing daily.
	Wash with soap and water after accidental skin contact.
	In case of eye contact, flush eyes with clean water.
	Do not eat, drink or smoke whilst applying, mixing, before washing hands and face and change of clothing.
	Prevent drift onto other sensitive plants or fish ponds.
	Clean applicator before using with other material – dispose of wash water where it will not contaminate food, grazing, rivers or dams.
	Rinse empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinse water to the contents of the spray tank before destroying the container.
	Destroy empty container and never use for any other purpose.
	Prevent contamination of food, feed, drinking water and eating utensils.
WHO-classification:	II (Moderately hazardous)
Classification according to GHS:	Cat. 4: Unclassified
HRAC Herbicide Group Code:	4

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
Full text of H- and EUH-statements:			
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H336	May cause drowsiness or dizziness.		
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.		
H411	Toxic to aquatic life with long lasting effect.		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Acute Tox. 4: H302	H302	Calculation method	
Asp. Tox. 1: H304	H304	Calculation method	
Skin Sens. 1: H317	H317	Calculation method	
STOT RE 2: H373	H373	Calculation method	
Aquatic Chronic 1: H410	H410	Calculation method	
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 1	Flammability - 0	Physical Hazard - 0	PPE -
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard			
Abbreviations and acronyms			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.		
ATE	Acute toxicity estimate.		
CAS-Nr.	CAS-Nr. Chemical Abstracts Service number.		
CEILING	Ceiling Limit Value.		
Conc.	Concentration.		
EC-No.	European community number.		
ECx	Effective concentration to x %.		
IATA	International Air Transport Association.		
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code).		
ICx	Inhibition concentration to x %.		
IMDG	International Maritime Dangerous Goods.		
LCx	Lethal concentration to x %.		
LDx	Lethal dose to x %.		
LOEC/LOEL	Lowest observed effect concentration/level.		
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships.		
N.O.S.	Not otherwise specified.		
NOEC/NOEL	No observed effect concentration/level.		
OECD	Organization for Economic Co-operation and Development.		
OES	Occupational Exposure Standard.		
PEAK	PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.		
SK-SEN	Skin sensitiser.		
SKIN_DES	SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.		
STEL	STEL: Exposure standard - short term exposure limit (STEL): A 15-minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.		
TWA	TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.		
UN	United Nations.		
WHO	World health organisation.		
This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Agro-Serve (Pty) Ltd does not accept responsibility for damage caused by incorrect use of this information.			

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Training and related advice: This document contains important information to ensure the safe storage, handling of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to staff and that all necessary training has been given. This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.
Prepared BY: Nico Lionel van der Westhuis – Technical Support Marketing
SDS EU (REACH Annex II) Update 1 May 2024
End of Safety Data Sheet