Rosecare 3

Safety Data Sheet

According to 1907/2006/EC; 453/2010/EU; 2015/830/EU (REACH)

Country:	RSA, NAM, BOT, ZAM, MOZ	SDS Number:	000043
Language:	English	Issue Date:	2026-01-01
Version:	1	Print Date:	2026-02-10

Agro-Serve encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container.

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

1.1 Product identifier	
Product form	Mixtures
Trade name	Rosecare 3
Registration Number	L6509 / N-AR0142 / W130079
SDS Number	000043
1.2 Relevant identified uses of the substance or mixture and uses advised against	
1.2.1. Relevant identified uses	
Main use category	Insecticide, Fungicide - For roses and garden plants.
Industrial/Professional use spec	Home and Garden.
Use of the substance/mixture	Insecticide, Fungicide.
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 P.O. Box 652147, Benmore, 2010, 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
South Africa	Poisons Information Helpline		0861 555 777	
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	
	Acute toxicity: Category 5: H303 May be harmful if swallowed.
	Acute Tox: Category 5: H333 May be harmful if inhaled.
	Carc.: Category 2: H351Suspected of causing cancer.
	Repr.: Category 2: H361 Suspected of damaging fertility or the unborn child.
	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:	
Hazardous components which must be listed on the label:	• Bifenthrin
	• Myclobutanil
CLP Signal word:	**Warning**
Hazard statements:	H412: Harmful to aquatic life with long lasting effects.
Precautionary statements:	
General Statement:	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 Statement:	P273: Avoid release to the environment.
Response Statements:	
Storage Statement:	
Disposal:	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	Not applicable.
Refer to section 11 for toxicological and section 12 for environmental information	

SECTION 3: Composition/information on ingredients

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3.1. Substances					
	Emulsifiable Concentrate (EC)				
	Biocidal product				
3.2. Mixtures				**According to (EC) 1907/2006 (REACH) amendment Reg. (EU) 2020/878**	
Chemical Name	**CAS-No.**	**EC – Number**	**Conc. % by weight**	**Classification**	**Warning Symbols**
Bifenthrin (2-methyl-3-phenylphenyl)methyl (1R,3R)-3-[(Z)-2-chloro-3,3,3-trifluoroprop-1-enyl]-2,2-dimethylcyclopropane-1-carboxylate (Hazard classification of this material is based on the worst possible case)	82657-04-3	617-373-6	1.02 %	Acute Tox. 2; Oral: H300. Skin Sens.1: H317. Acute Tox. 3: H331. Carc. 2: H351. Aquatic Acute 1: H400. Aquatic Chronic 1: H410.	
Myclobutanil 2-(4-chlorophenyl)-2-(1,2,4-triazol-1-ylmethyl)hexanenitrile (Hazard classification of this material is based on the worst possible case)	88671-89-0	618-198-8	0.79 %	Acute Tox. 4: H302. Eye Irrit. 2: H319. Rep. Cat.2: H361. Aquatic Chronic 1: H410.	
Aromatic solvent 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene (Hazard classification of this material is based on the worst possible case)	98-86-2	202-708-7	2.8 %	Acute Tox. 4: H302. Eye Irrit. 2: H319.	
Anion Surfactant	99734-09-5	935-429-0	2.3 %	Eye Irrit. 2: H319. Aquatic Chronic 1: H412.	
Other ingredients (non-hazardous) to 100%		Balance		100 %	
Further information					
Deltamethrin	82657-04-3	M-Factor: 10,000 (acute); 100,000 (chronic)			
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	Remove contaminated clothing immediately and dispose of safely.
First-aid measures after inhalation	Move the victim to fresh air and keep at rest. Call a physician or poison control centre immediately.
First-aid measures after skin contact	Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.
First-aid measures after eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.
First-aid measures after ingestion	Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.
4.2. Most important symptoms and effects, both acute and delayed	
	Local: Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing.
	Systemic: Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy.
4.3. Indication of any immediate medical attention and special treatment needed	
	Risks This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
	Local treatment: Initial treatment: symptomatic.
	Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used.

	Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae.
	In case of skin irritation, application of oils or lotions containing vitamin E may be considered.

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	Water jet.
5.2. Special hazards arising from the substance or mixture	
	Dangerous gases are evolved in the event of a fire.
5.3. Advice for firefighters	**Special protective equipment for fire-fighters**
	In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
5.3. Further information	
	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses.
5.4. Flash point	
	No additional information available.

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	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
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.

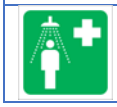
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components	CAS-No.	Exposure limit(s)	Type of exposure limit	Source
Deltamethrin	52918-63-5	0.02 mg/m3	TWA	OHS

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.

8.2. Exposure controls	
8.2.1. 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.
8.2.2.1. Hand protection	Chemical resistant nitrile rubber gloves.
8.2.2.2. Eye protection	Tightly fitting safety goggles.
8.2.2.3. Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
8.2.2.4. Respiratory protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
	
8.2.2.5. General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.
8.2.3. Environmental exposure controls	Avoid release to the environment.

8.3. Additional emergency measures			
Emergency measure	**Emergency measure**	**Emergency measure**	**Emergency measure**
	Emergency shower ISO 3864-1:2011, ISO 3864-4:2011		Eyewash stations ISO 3864-1:2011, ISO 3864-4:2011

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state	Liquid
Colour	A clear blue-violet liquid.
Odour	Aromatic
Odour threshold	No data available
Melting point / Freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Non-flammable.
Lower and upper explosion limit	No data available
Flash point	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
pH	7.6
Kinematic viscosity	No data available
Solubility	Miscible in water
Partition coefficient noctanol / water (log value)	log Pow: 2.89
Vapour pressure	No data available
Density Solubility	No data available
Relative density	1,005 g/mℓ
Particle characteristics	No data available
9.2. Other information	No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions.
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.
10.5. Incompatible materials	Store only in the original container.
10.6. Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Final acute toxicity classification formulated Product	
LD50 oral rat	LD50 (rat) 9,119 mg/kg
LD50 dermal rat	Not applicable.
LC50 inhalation rat (mg/l)	LC50 (Rat) 250 mg/l
Bifenthrin	
LD50 oral rat	LD50 (rat) 531 mg/kg

LD50 dermal rat	LD50 (rabbit) > 2,000 mg/kg
LC50 inhalation rat (mg/l)	LC50 (Rat) > 4.9 mg/l 4hr
Skin corrosion/irritation	No skin irritation (Rabbit)
Serious eye damage/irritation	Causes serious eye irritation. (Rabbit)
Respiratory or skin sensitisation	Non-sensitizing (Mouse). OECD Test Guideline 429, local lymph node assay (LLNA)
Myclobutanil	
LD50 oral rat	> 1600 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.1 mg/l/4h
Skin corrosion/irritation	No skin irritation (Rabbit)
Serious eye damage/irritation	May cause slight eye irritation. (Rabbit)
Respiratory or skin sensitisation	Non-sensitizing (Mouse). OECD Test Guideline 429, local lymph node assay (LLNA)
Aromatic solvent	
LD50 oral rat	815 mg/kg
LD50 dermal rabbit	16,329 mg/kg
Skin corrosion/irritation	No data available.
Serious eye damage/irritation	No data available.
Respiratory or skin sensitisation	No data available.
Bifenthrin	
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	May be fatal if swallowed and enters airways.
Assessment mutagenicity	Evidence of mutagenic effects from exposure to Bifenthrin are inconclusive. Studies of mouse white blood cells were positive for gene mutation. However, other tests of bifenthrin's mutagenic effects, including the Ames test and studies in live rat bone marrow cells, were negative.
Assessment carcinogenicity	There was no evidence of cancer in a 2-year study of rats who ate as much as 10 mg/kg/day of Bifenthrin. However, an 87 week feeding study of mice with doses of 7, 29, 71, and 86 mg/kg showed a significantly higher, dose related trend of increased tumour incidence in the male urinary bladder. The incidence was significantly increased at 86 mg/kg/day. Also, females had higher incidences of lung cancer than the controls at doses of 7 mg/kg and higher. The EPA has classified Bifenthrin as a class C carcinogen, a possible human carcinogen.
Assessment toxicity to reproduction	The dose at which no toxic effect of Bifenthrin is observed on the mother (maternal toxicity NOEL) is 1 mg/kg/day for rats and 2.67 mg/kg/day for rabbits. At higher doses, test animals had tremors. The dose at which no toxic effect is observed on development (developmental toxicity NOEL) is 1 mg/kg/day for rats and is greater than 8 mg/kg/day for rabbits.
Assessment developmental toxicity	Not teratogenic in animal studies.
Myclobutanil	
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	Not likely to be an aspiration hazard.
Assessment mutagenicity	In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.
Assessment carcinogenicity	Did not cause cancer in laboratory animals.
Assessment toxicity to reproduction	In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.
Assessment developmental toxicity	Did not cause developmental toxicity in rats and rabbits.
Aromatic solvent	
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Assessment mutagenicity	No data available.
Assessment carcinogenicity	Did not cause cancer in laboratory animals.
Assessment toxicity to reproduction	No information is available on the reproductive or developmental effects of acetophenone in humans. In one study of pregnant rats exposed dermally, no effects on reproduction or development were noted.
Assessment developmental toxicity	Based on available data, the classification criteria are not met.
Further information	No additional information available.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general:	Very toxic to aquatic life with long lasting effects.
Bifenthrin	
LC50 fish 1	Rainbow trout (Oncorhynchus mykiss) 0.15 mg/l; Exposure time: 96 h
EC50 Daphnia 1	Water flea (Daphnia magna) 0.11 mg/l; Exposure time: 48 h
ErC50 (algae)	Scenedesmus quadricauda (Green algae) 0.822 mg/l; Exposure time: 72 h
Bees LD50 (oral)	0.1 µg/Bee
Bees LC50 (contact)	0.015 µg/Bee

Earthworm LC50 (14 days)	18.9 mg/kg soil
Birds Oral LD50	Mallard ducks: 1800 mg/kg
Birds LC50 (8-day diet)	Quail: > 4450 mg/kg diet
Birds LC50 (8-day diet)	Mallard ducks: > 2150 mg/kg diet
Myclobutanil	
LC50 fish 1	Rainbow trout (Oncorhynchus mykiss) 4.2 mg/l; Exposure time: 96 h
EC50 Daphnia 1	Water flea (Daphnia magna) 17.0 mg/l; Exposure time: 48 h
ErC50 (algae)	Green algae (Selenastrum capricornutum) 2.66 mg/l; Exposure time 72h
Bees LD50 (oral)	500 ug
Bees LC50 (contact)	200 ug
Earthworm LC50 (14 days)	250 mg/kg soil
Birds Oral LD50	Mallard duck (Anas platyrhynchos) 510 mg/kg
Birds LC50 (8-day diet)	Mallard duck (Anas platyrhynchos) >5620 mg/kg
Birds LC50 (8-day diet)	Northern bobwhite quail (Colinus virginianus) > 5000 mg/kg
Aromatic solvent	
LC50 fish 1	Rainbow trout (Salmo gairdneri) 162 mg/l; Exposure time: 96h
12.2. Persistence and degradability	
Bifenthrin	
Persistence and degradability	Not rapidly biodegradable.
Koc	No data available.
Myclobutanil	
Persistence and degradability	Not readily biodegradable.
Koc	No data available.
Aromatic solvent	
Persistence and degradability	Readily biodegradable.
Koc	No data available.
Biodegradation	No data available.
12.3. Bioaccumulative potential	
Bifenthrin	
Log Pow	log Pow: 6.6 at 25 °C
Bioaccumulative potential	Does not bioaccumulate.
Myclobutanil	
Log Pow	log Pow: 3.17
Bioaccumulative potential	Does not bioaccumulate.
Aromatic solvent	
Log Pow	log Pow: 4.75
Bioaccumulative potential	Does not bioaccumulate.
12.4. Mobility in soil	
Bifenthrin	
Ecology - soil	Immobile in soil.
Myclobutanil	
Ecology - soil	Moderately mobility soil.
Aromatic solvent	
Ecology - soil	Very high mobility in soil.
12.5. Results of PBT and vPvB assessment	
	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
12.6. Endocrine disrupting properties:	
	No additional information available.
12.7. Other adverse effects:	
	No additional information available.

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.

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, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION), 9, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION) 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
Effective January 1, 2015, by Special Provision, UN3077 and UN3082 when packaged in inner packages of 5L / 5 KG or less are not subject to the dangerous goods regulations.				

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Registration No.	L6509 / N-AR0142 / W130079
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.	
WHO-classification:	III (Slightly hazardous)
Classification according to GHS:	Category 5
IRAC Insecticide & FRAC Fungicide Group Code:	3A & G1
15.2. Chemical safety assessment	Young people under the age of 18 are not allowed to work with the substance.

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments

Full text of H- and EUH-statements:	
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes eye serious irritation.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
May be harmful if swallowed.	H303	Calculation method.
May be harmful if inhaled.	H333	Calculation method.
Suspected of causing cancer.	H351	Calculation method.
Suspected of damaging fertility or the unborn child.	H361	Calculation method.

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Aquatic Acute 1	H400	Calculation method.	
Aquatic Chronic 1	H410	Calculation method.	
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 1	Flammability - 1	Physical Hazard - 0	PPE - 0
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 - Agreement concerning the International Carriage of Dangerous Goods by Road; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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.

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 Specialist

SDS EU (REACH Annex II) Update 1 June 2025

End of Safety Data Sheet