

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

SDS Number: 000054
 Issue Date: 2026-01-01
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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 Plus
Registration Number	L10643 / N-AR2043
SDS Number	000044

1.2 Relevant identified uses of the substance or mixture and uses advised against

Main use category	Insecticide & Fungicide – For roses and garden plants
Industrial/Professional use spec	Home and Garden.
Use of the substance/mixture	Insecticide & Fungicide.

1.2.1. Relevant identified uses

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
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

	Flammable liquids: Category 3: H226 Flammable liquid and vapor.
	Acute toxicity: Category 5: H303 May be harmful if swallowed.
	Acute toxicity: Category 4: H332 Harmful if inhaled.
	Reproductive toxicity: 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	GHS02	GHS07	GHS09
Hazardous components which must be listed on the label	• Imidacloprid		
CLP Signal word	Warning		
Hazard statements	H226: Flammable liquid and vapor. H332: Harmful if inhaled. H410: Very toxic 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	P210: Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. P223: Do not allow contact with water. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment.		

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

SDS Number: 000054
 Issue Date: 2026-01-01
 Print Date: 2026-02-10

Response Statements	P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P317: Get emergency medical help.
	P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
	P391 - Collect spillage.
Storage Statement	P403+P233: Store in a well-ventilated place. Keep container tightly closed.
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	None known.
Refer to section 11 for toxicological and section 12 for environmental information	

SECTION 3: Composition/information on ingredients

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
Imidacloprid N-{1-[(6-Chloro-3-pyridyl)methyl]-4,5-dihydroimidazol-2-yl}nitramide (Hazard classification of this material is based on the worst possible case)	138261-41-3	428-040-8	6.0 %	Acute Tox. 4: H302 Aquatic Acute 1: H400 Aquatic Chronic 1: H410	 
Difenoconazole 1-({2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl)methyl}-1H-1,2,4-triazole; 3-chloro-4-[(2RS,4RS;2RS,4SR)-4-methyl-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-2-yl]phenyl 4-chlorophenyl ether (Hazard classification of this material is based on the worst possible case)	119446-68-3	601-613-1	2.5 %	Acute Tox. 4: H302 Eye Irrit.2: H319 Aquatic Acute 1: H400 Aquatic Chronic 1: H410	 
Penconazole 1-[2-(2,4-dichlorophenyl)pentyl]-1H-1,2,4-triazole (Hazard classification of this material is based on the worst possible case)	66246-88-6		1.3 %	Acute Tox. 4: H302 Repr.2: H361D Aquatic Acute 1: H400 Aquatic Chronic 1: H410	  
Abamectin (combination of avermectin B1a and avermectin B1b) (Hazard classification of this material is based on the worst possible case)	71751-41-2		0.15 %	Acute Tox. 2: H300 Acute Tox. 1: H330 STOT RE.1 Repr.2: H361D Aquatic Acute 1: H400 Aquatic Chronic 1: H410	  
Other ingredients (non-hazardous) to 100%		Balance		100 %	
Further information					
Imidacloprid	138261-41-3	M-Factor: 100 (acute), 10,000 (chronic)			
Difenoconazole	119446-68-3	M-Factor: 10 (acute), 10 (chronic)			
Penconazole	66246-88-6	M-Factor: 1 (acute), 1 (chronic)			
Abamectin	71751-41-2	M-Factor: 10,000 (acute)			
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	Remove source of contamination or move victim to fresh air. Keep affected person warm and at rest. Give oxygen if patient has difficulty in breathing. If not breathing give artificial respiration. Obtain medical assistance.
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.

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

SDS Number: 000054
 Issue Date: 2026-01-01
 Print Date: 2026-02-10

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	DO NOT induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Loosen tight clothing. Get medical attention if symptoms develop.
4.2. Most important symptoms and effects, both acute and delayed	No adverse health effects are expected if this product is used according to the directions on the label. However, if the product is misused, signs and symptoms of poisoning may include abdominal pain, diarrhoea, dizziness, fatigue, headache, twitching, cramps, and muscle weakness.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically. 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. There is no specific antidote.

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	High volume water jet.
5.2. Special hazards arising from the substance or mixture	Carbon monoxide, hydrogen fluoride, carbon dioxide, nitrogen oxides The substances/groups of substances mentioned can be released in case of 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	> 51°C.

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.

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

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

SDS Number: 000054
 Issue Date: 2026-01-01
 Print Date: 2026-02-10

	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 stability	Storage duration: 24 Months
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
Imidacloprid	138261-41-3	0.7 mg/m ³	TWA	AU NOEL
Difenoconazole	119446-68-3	5 mg/m ³	TWA	EU NOEL
Penconazole	66246-88-6	0.03 mg/m ³	TWA	EU NOEL
Abamectin	71751-41-2	15 mg/m ³	TWA	EU NOEL

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:	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet. Material Nitrile rubber Rate of permeability > 480 min Glove thickness > 0.4 mm Protective index Class 6 Directive Protective gloves complying with EN 374.
8.2.2.2. Eye protection	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
8.2.2.3. Skin and body protection	Wear standard coveralls and Category 3 Type 4 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If there is a risk of significant exposure, consider a higher protective type suit.
8.2.2.4. Respiratory protection	Wear a compressed air respirator (continuous flow) conforming to European Norm EN14594 or EN14593-1 or equivalent or a particle filter mask (protection factor 40) conforming to EN136P3 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
	   
8.2.2.5. General protective measures	The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.
8.2.3. Environmental exposure controls	Avoid release to the environment. For information regarding environmental exposure controls, see Section 6.

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

1. Physical state	Liquid
2. Colour	Yellow

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

SDS Number: 000054
 Issue Date: 2026-01-01
 Print Date: 2026-02-10

3. Odour	Aromatic hydrocarbon
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	Not Flammable
8. Lower and upper explosion limit	No data available
9. Flash point	> 51 °C
10. Auto ignition temperature	No data available
11. Decomposition temperature	No decomposition if stored and handled as prescribed/indicated.
12. pH	6.5 @ 19 °C
13. Kinematic viscosity	No data available
14. Solubility	Immiscible
15. Partition coefficient octanol / water (log value)	No data available
16. Vapour pressure	No data available
17. Density Solubility	Not determined
18. Relative density	No data available
19. Particle characteristics	Not applicable
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	
Formulated product	
LD50 oral rat	LD50 (rat) 2,509 mg/kg
LD50 dermal rabbit	LD50 (rabbit) N/A
LC50 inhalation rat (mg/l)	LC50 (Rat) 3.3
Skin irritation	Based on available data, the classification criteria are not met
Eye irritation	Based on available data, the classification criteria are not met
Sensitisation	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Imidacloprid did not cause specific target organ toxicity in experimental animal studies.
Aspiration hazard	Imidacloprid: Based on available data, the classification criteria are not met.
Assessment mutagenicity	Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Assessment carcinogenicity	None of the active ingredients is classified as a known carcinogen.
Assessment toxicity to reproduction	Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.
Assessment developmental toxicity	Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.
Further information	Misuse can be harmful to health.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general:	Very toxic to aquatic life with long lasting effects.
Formulated product	
LC50 fish 1	Rainbow trout (<i>Oncorhynchus mykiss</i>) > 535 mg/l; Exposure time: 96 h
LC50 fish 2	Golden orfe (<i>Leuciscus idus</i>) 237 mg/l; Exposure time: 96 h The value mentioned relates to the active ingredient imidacloprid.
EC50 Daphnia	Water flea (<i>Daphnia magna</i>) > 535 mg/l; Exposure time: 24 h
EC50 Midge	Non-biting midge (<i>Chironomus riparius</i>) 0.0552 mg/l; Exposure time: 24 h The value mentioned relates to the active ingredient imidacloprid.
ErC50 (algae) 1	Green algae (<i>Desmodesmus subspicatus</i>) > 1,000 mg/l; Exposure time: 72 h
ErC50 (algae) 2	Freshwater green alga (<i>Raphidocelis subcapitata</i>) > 100 mg/l; Exposure time: 72 h
Bees LD50 (oral)	0.037 µg /bee
Bees LC50 (contact)	0.081 µg /bee
Earthworm LC50 (14 days)	4,280 mg/kg soil

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

SDS Number: 000054
 Issue Date: 2026-01-01
 Print Date: 2026-02-10

Birds Oral LD50	Japanese quail 31 mg/kg
Birds Oral LD50	Bobwhite quail 152 mg/kg
Birds LC50 (5-day diet)	Japanese quail 392 mg/kg diet
Birds LC50 (20 weeks diet)	Bobwhite quail 126 mg/kg diet
12.2. Persistence and degradability	
Imidacloprid	
Persistence and degradability	Not rapidly biodegradable.
Koc	Imidacloprid: Koc: 225
12.3. Bioaccumulative potential	
Imidacloprid	
Log Pow	Bioconcentration factor (BCF) 0.57 / log Pow: 0.57
Bioaccumulative potential	Does not bioaccumulate.
12.4. Mobility in soil	
Imidacloprid	
Ecology - soil	Moderately mobile in soils
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 Other adverse effects	
	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.
12.7 environmental effects:	
	Persistence and degradability: The half-life of imidacloprid in soil is 48 to 190 days, depending on the amount of ground cover (it breaks down faster in soils with plant ground cover than in fallow soils). Imidacloprid is degraded stepwise to the primary metabolite 6-chloronicotinic acid, which eventually breaks down into carbon dioxide. There is generally not a high risk of groundwater contamination if used as directed. The chemical is moderately soluble, and has moderate binding affinity to organic materials in soils. The half-life in water is much greater than 31 days at pH 5, 7 and 9. Imidacloprid penetrates the plant, and moves from the stem to the tips of the plant. The most important steps were loss of the nitro group, hydroxylation at the imidazolidine ring, hydrolysis to 6- chloronicotinic acid and formation of conjugates.

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. Pesticide wastes can be acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate must be avoided. Never pour surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate water, food or feed. Only approved collection schemes should be used to dispose of waste pesticides. Ideally small amounts of the product that are still in a usable condition should be disposed of by using for its intended purpose. For disposal of large amounts use an approved waste disposal contractor. Comply with all national/local legislation applying to waste disposal. Refer to GUIDELINES FOR THE DISPOSAL OF OBSOLETE, REDUNDANT, LEFT OVER AND UNWANTED PESTICIDES www.avcasa.co.za .
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				
1993	1993	1993	1993	1993
				
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3,	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3, III, MARINE	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3, III,	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3, III,	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3,

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

SDS Number: 000054
 Issue Date: 2026-01-01
 Print Date: 2026-02-10

III, (D/E), ENVIRONMENTALLY HAZARDOUS	POLLUTANT/ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
3	3	3	3	3
				
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. L10643 / N-AR2043

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: II (Moderately hazardous)

Classification according to GHS: Category 4.

IRAC Insecticide Group Code: 4A & 6

FRAC Fungicide Group Code: 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
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.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam.liq.3	H226	Calculation method.
Acute Tox.: Cat. 5	H303	Calculation method.
Acute Tox. 4	H303	Calculation method.
Repr.2	H361	Calculation method.
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 - 2	Physical Hazard - 0	PPE - 1
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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

Country:	RSA, NAM, BOT, ZAM, MOZ	SDS Number:	000054
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Version:	1	Print Date:	2026-02-10

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