

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

SDS Number: 000043
 Issue Date: 2022-07-01
 Print Date: 2024-11-21

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

Product identifier				
Product form		Mixtures		
Trade name		Rosecare 3		
Product code		100ml 32251 (6001379102139); 500ml 32254 (6001379102153)		
Registration Number		L6509 / N-AR0142 / W130079		
SDS Number		000043		
1.1. Relevant identified uses of the substance or mixture and uses advised against				
1.1.1. 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.		
1.1.2. 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
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: H351 Suspected 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:

GHS08 GHS09

Hazardous components which must be listed on the label:

- Bifenthrin
- Myclobutanil

CLP Signal word:

Warning

Hazard 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.

Precautionary statements:

General Statement:

P101: If medical advice is needed, have product container or label at hand.

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

SDS Number: 000043
 Issue Date: 2022-07-01
 Print Date: 2024-11-21

	P102: Keep out of reach of children.
	P103: Read carefully and follow all instructions.
Prevention Statement:	P203: Obtain, read and follow all safety instructions before use.
	P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264: Wash hands thoroughly after handling.
	P270: Do not eat, drink or smoke when using this product.
	P271: Use only outdoors or in a well-ventilated area.
	P272: Contaminated work clothing should not be allowed out of the workplace.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
Response Statements:	P316: Get emergency medical help immediately.
	P318: if exposed or concerned, get medical advice.
	P320: Specific treatment is urgent (see ... on this label).
	P330: Rinse mouth.
	P301+P316: IF SWALLOWED: Get emergency medical help immediately.
	P302+P352: IF ON SKIN: wash with plenty of water.
	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
	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	
	Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

	Emulsifiable Concentrate (EC)
	Biocidal product

3.2. Mixtures

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 <small>(Hazard classification of this material is based on the worst possible case)</small>	82657-04-3	617-373-6	1.02 %	H300: Fatal if swallowed H317: May cause an allergic skin reaction H331: Toxic if inhaled. H351: Suspected of causing Cancer. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.	
Myclobutanil 2-(4-chlorophenyl)-2-(1,2,4-triazol-1-ylmethyl)hexanenitrile <small>(Hazard classification of this material is based on the worst possible case)</small>	88671-89-0	618-198-8	0.79 %	H302: Harmful if swallowed H319: Causes eye serious irritation H361: Suspected of damaging fertility or the unborn child H410: Toxic to aquatic life with long lasting effects.	
Aromatic solvent 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene <small>(Hazard classification of this material is based on the worst possible case)</small>	98-86-2	202-708-7	2.8 %	H302: Harmful if swallowed H319: Causes eye serious irritation.	
Anion Surfactant	99734-09-5	935-429-0	2.3 %	H319: Causes eye serious irritation H412: Harmful to aquatic life with long lasting effects	
Other ingredients (non-hazardous) to 100%		Balance		100 %	

Further information

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

SDS Number: 000043
 Issue Date: 2022-07-01
 Print Date: 2024-11-21

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.

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".

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


SDS Number: 000043
 Issue Date: 2022-07-01
 Print Date: 2024-11-21

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

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.				
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.			
Hand protection:	Chemical resistant nitrile rubber gloves.			
Eye protection:	Tightly fitting safety goggles.			
Skin and body protection:	Wear long-sleeved shirt and long pants and shoes plus socks.			
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.			
				
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.			
Environmental exposure controls:	Avoid release to the environment.			

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state	Liquid
Colour	Light Pink - Red
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

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

SDS Number: 000043
 Issue Date: 2022-07-01
 Print Date: 2024-11-21

Flammability	Non-flammable.
Lower and upper explosion limit	No data available
Flash point	> 65.5 °C Closed Cup
Auto ignition temperature	No data available
Decomposition temperature	No data available
pH	7.7 at 100 % (23 °C)
Kinematic viscosity	< 21 mm ² /s @ 40 °C
Solubility	Miscible in water
Partition coefficient octanol / water (log value)	log Pow: 2.89
Vapour pressure	No data available
Density Solubility	No data available
Relative density	0.999
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.

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.

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

SDS Number: 000043
 Issue Date: 2022-07-01
 Print Date: 2024-11-21

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	

SECTION 12: Ecological information






12.1. Toxicity	
Ecology - general:	Very toxic to aquatic life with long lasting effects.
Bifenthrin	
LC50 fish 1	Rainbow trout (<i>Oncorhynchus mykiss</i>) 0.15 mg/l; Exposure time: 96 h
EC50 Daphnia 1	Water flea (<i>Daphnia magna</i>) 0.11 mg/l; Exposure time: 48 h
ErC50 (algae)	<i>Scenedesmus quadricauda</i> (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 (<i>Oncorhynchus mykiss</i>) 4.2 mg/l; Exposure time: 96 h
EC50 Daphnia 1	Water flea (<i>Daphnia magna</i>) 17.0 mg/l; Exposure time: 48 h
ErC50 (algae)	Green algae (<i>Selenastrum capricornutum</i>) 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 (<i>Anas platyrhynchos</i>) 510 mg/kg
Birds LC50 (8-day diet)	Mallard duck (<i>Anas platyrhynchos</i>) >5620 mg/kg
Birds LC50 (8-day diet)	Northern bobwhite quail (<i>Colinus virginianus</i>) > 5000 mg/kg
Aromatic solvent	

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

SDS Number: 000043
 Issue Date: 2022-07-01
 Print Date: 2024-11-21

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.

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,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION), 9, III, MARINE	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION), 9, III,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION), 9, III,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIFENTHRIN & MYCLOBUTANIL SOLUTION) 9,

Country: RSA, NAM, BOT, ZAM, MOZ SDS Number: 000043
 Language: English Issue Date: 2022-07-01
 Version: 1 Print Date: 2024-11-21

III, (D/E), ENVIRONMENTALLY HAZARDOUS	POLLUTANT/ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	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.	
Hazard statements:	Handle the concentrate with care. Poisonous when swallowed or inhaled. May irritate skin, eyes and cause skin sensitization. Do not use on edible crops, foodstuffs or surfaces on which food is handled or stored. Keep out of reach of children, uninformed persons and animals. Poisonous if absorbed through the skin, swallowed or inhaled. Toxic to bees, fish and other aquatic organisms and wildlife. Store in a cool place away from food and feed.
WHO-classification:	II (Moderately 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.	

Country: RSA, NAM, BOT, ZAM, MOZ SDS Number: 000043
 Language: English Issue Date: 2022-07-01
 Version: 1 Print Date: 2024-11-21

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	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.		
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