




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

SDS Number: 000028
Issue Date: 2023-05-01
Print Date: 2024-11-21

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

1.1. Product identifier				
Product form	Mixtures			
Trade name	Funginex			
Product code	100ml 16553 (6001379010083)			
Registration Number	L2469 / N-AR0131 / W130281			
SDS Number	000028			
1.2. Relevant identified uses of the substance or mixture and uses advised against				
1.2.1. Relevant identified uses				
Main use category	Fungicide – Plant Protection Product.			
Industrial/Professional use spec	Home and Garden.			
Use of the substance/mixture	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 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				
	Flammable liquid: Category 3: H226 Flammable liquid and vapour.			
	Skin Irritation: Category 2: H315 Causes skin irritation.			
	Eye irritation: Category 2: H319 Causes serious eye irritation.			
	Acute toxicity, Inhalation: Category 4: H332 Harmful if inhaled.			
	Specific target organ toxicity, single exposure; Narcotic effects: Category 3: H336 May cause drowsiness or dizziness.			
	Reproductive toxicity: Category 1B: H360 - May damage fertility or the unborn child			
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:	• Cypermethrin			
CLP Signal word:	Danger			
Hazard statements:	H226: Flammable liquid and vapour.			
	H315: Causes skin irritation.			
	H319: Causes serious eye irritation			
	H332: Harmful if inhaled.			
	H336: May cause drowsiness or dizziness.			
	H360: May damage fertility or the unborn child			
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:	P203: Obtain, read and follow all safety instructions before use.			

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	P210: Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.
	P233: Keep container tightly closed.
	P240: Ground/bond container and receiving equipment.
	P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
	P242: Use only non-sparking tools.
	P243: Take precautionary measures against static discharge.
	P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
	P271: Use only outdoors or in a well-ventilated area.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response Statements:	P303+P361+353: 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.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
	P318: If exposed or concerned, get medical advice.
	P319: Get medical help if you feel unwell.
	P332+P317: If skin irritation occurs: Get medical help.
	P337+P317: If eye irritation persists: Get medical help.
	P362+P364: Take off contaminated clothing and wash it before reuse.
	P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
	P391: Collect spillage.
Storage Statements:	P403+P233: Store in a well-ventilated place. Keep container tightly closed.
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	
	Not applicable.

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
Triforine (Hazard classification of this material is based on the worst possible case)	26644-46-2	247-872-0	19.7 %	Acute Tox. 4: H302 Acute Tox. 4: H332	
Isopropanol (2-Propanol) (Hazard classification of this material is based on the worst possible case)	67-63-0	200-661-7	< 10.0 %	Flam. Liq. 2: H225 Eye Irrit. 2: H319 STOT SE 3 : H336	 
Dodecylbenzenesulfonic Acid, Triethanolamine Salt (Hazard classification of this material is based on the worst possible case)	27323-41-7	248-406-9	30.0 – 60.0 %	Skin Corr. 1C: H314 Eye Dam. 1: H318 Aquatic Chronic 3: H412	
N-Methyl-2-pyrrolidone (Hazard classification of this material is based on the worst possible case)	872-50-4	212-828-1		Flam. Liq. 4: H227 Eye Irrit. 2: H315 Eye Irrit. 2: H319 Repr. 1B: H360D	 
N,N-Dimethylformamide (Hazard classification of this material is based on the worst possible case)	68-12-2	200-679-5	10.0 – 30.0 %	Acute Tox. 4: H312 Eye Irrit. 2: H319 Acute Tox. 4: H332 Repr. 1B: H360D	 
N-Methyl-2-pyrrolidone (Hazard classification of this material is based on the worst possible case)	872-50-4	212-828-1	10.0 – 30.0 %	Skin Irrit. 2: H315 Eye Irrit. 2: H319 STOT SE 3: H335 Repr. 1B: H360D	 
Other ingredients (non-hazardous) to 100%	Balance			100 %	
Further information					

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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	Immediately remove contaminated clothing and move the affected person from the contamination area. Keep the person warm, calm, and covered up. First Aid personnel should pay attention to their own safety. In case of accident or if unwell, seek medical advice immediately. Provide this SDS and the label to medical personnel for treatment.
First-aid measures after inhalation	Remove the affected victim from exposure to an area with fresh air. If breathing is difficult, have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the product; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If the patient is conscious, rinse nose, mouth, and throat with water. Obtain immediate medical attention or advice.
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	If swallowed, seek medical attention, and show the container label, or this Safety Data Sheet to the medical practitioner. If conscious, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
4.2. Most important symptoms and effects, both acute and delayed	
	Skin and serious eye irritation. Harmful if inhaled. May result in a narcotics effect - cause drowsiness or dizziness. May damage fertility or the unborn child.
4.3. Indication of any immediate medical attention and special treatment needed	
	No specific antidote. Treat symptomatically and supportively - according to patient's condition and specific exposure.

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	
	Flammable liquid and vapour. Toxic fumes may be released.
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".
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.

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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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
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	
Technical measures	The storage facility should be designed to store flammable liquids. The storage floor should be protected from water ingress or should have water-proof construction. Bunding/sumps should be provided to catch spills. The storage facility should be provided with necessary lighting equipment and good ventilation to store hazardous chemicals.
Storage conditions	Keep away from heat, sparks, open flames, and hot surfaces. Store away from oxidants. Have containers keep away from direct sunlight and heat. Store in a well-ventilated and cool place keeping container tightly closed. Store locked up.
Storage temperature	>0°C <40°C
7.3. Specific end use(s)	
	Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
Components	CAS-No.	Exposure limit(s)	Type of exposure limit	Source
2-Propanol	67-63-0	400 ppm	OEL- eight - TWA	South African RELs*
2-Propanol	67-63-0	800 ppm	OEL-STEL/C	South African RELs*
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:		Use explosion-proof electrical, ventilating and lighting equipment. Take precautionary measures against static discharge. Workplaces that store or handle the product should be equipped with an eye washing station and safety shower. Handle only in fully enclosed systems and equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to keep exposure to airborne levels below recommended exposure limits.		
8.2.2. Individual protection measures, such as personal protective equipment:				
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.		

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8.2.3. Environmental exposure controls:		In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1	
8.2.4. Volatile organic compounds:			
8.3. Additional emergency measures			
Emergency measure	Standards	Emergency measure	Standards
	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	Light yellow - Brownish-yellow
3. Odour	Solvent odour
4. Odour threshold	No data available
5. Melting point / Freezing point	No data available
6. Boiling point or initial boiling point and boiling range	82 °C (Isopropyl alcohol)
7. Flammability	No data available
8. Lower and upper explosion limit	No data available
9. Flash point	59 °C
10. Auto ignition temperature	248 °C (N-Methyl-2-pyrrolidone)
11. Decomposition temperature	No data available
12. pH	4 - 9
13. Kinematic viscosity	No data available
14. Solubility	Insoluble and emulsified in water.
15. Partition coefficient octanol / water (log value)	No data available
16. Vapour pressure	No data available
17. Density Solubility	1.07 g/cm ³ (20°C)
18. Relative density	No data available
19. Particle characteristics	No data available
9.2. Other information	
9.2.1. Information with regard to physical hazard classes:	No additional information available.
9.2.2. Other safety characteristics:	No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	Reacts with strong acids and halogenides.
10.4. Conditions to avoid	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	Oxidizing agents, strong acids, strong bases. Store only in the original container.
10.6. Hazardous decomposition products:	Burning can produce carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, hydrogen chloride.

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) > 4,343 mg/kg
LD50 dermal rat	LD50 (rat) > 3,844 mg/kg
LC50 inhalation rat (mg/l)	LC50 (Rat) 5.1 mg/l
Skin corrosion/irritation	Based on available data, the classification criteria are met for skin irritation. N-Methyl-2-pyrrolidone: causes mild irritation in rabbits.

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Serious eye damage/irritation	Based on available data, the classification criteria are not met for serious eye irritation. N,N-Dimethylformamide: Listed as a substance that strongly irritates the eyes in the notifications related to the guidelines for preventing impairment of workers' health.
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met)
Additional information	OECD 406 method
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	Based on available data, the classification criteria are met for reproductive and developmental toxicity. N,N-Dimethylformamide: Experiments have shown reproductive toxicity effects on laboratory animals. Developmental effects have occurred in experimental animals. May damage the unborn child. N-Methyl-2-pyrrolidone: Skeletal malformations observed in both rats and rabbits when orally administered in doses that resulted in maternal toxicity. Known to cause developmental toxicity in humans. Damage to the foetus possible
STOT-single exposure	Based on available data, the classification criteria are met. N-Methyl-2-pyrrolidone: Incoordination reported to have occurred in rats and mice at an oral administration of 519 mg/kg. Animal tests (5.1 mg/L) (vapor and aerosol mixture) indicated that during exposure, respiratory distress, irregular breathing, shortness of breath, and decreased pain reflex occurred. Severe eye irritation and headache were observed in humans, while an inhalation test in volunteers found no airway irritation.
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met)
Additional information	
11.2. Information on other hazards	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general:	The product is of moderate toxicity to aquatic organisms.
Funginex	
EC50 Daphnia 1	Water flea (Daphnia magna) 19 mg/l; Exposure time: 48 h
Triforine	
LC50 fish 1	Rainbow trout (Salmo gairdneri) >1,000 mg/l; Exposure time: 96h
EC50 Daphnia 1	Water flea (Daphnia magna) 25 mg/l; Exposure time: 48 h
ErC50 (algae)	Scenedemus subcapitata (Green algae) 380 mg/l; Exposure time: 72 h
Bees LD50 (oral)	> 100 micrograms
Bees LC50 (contact)	> 200 micrograms
Earthworm LC50 (14 days)	> 1,000 mg/kg
Birds Oral LD50	Colinus virginianus (Bobwhite quail), > 5,000 mg/kg
12.2. Persistence and degradability	
Triforine	
Persistence and degradability	The half-life of triforine in soil is approximately 3 weeks. It is considered non-persistent in soil. Triforine decomposes in aqueous solution exposed to UV or daylight.
Koc	Koc = 527 (slightly mobile)
12.3. Bioaccumulative potential	
Triforine	
Log Pow	LogP = 2.4 (low)
Bioaccumulative potential	An estimated BCF of 10 suggests the potential for bioconcentration in aquatic organisms is low.
12.4. Mobility in soil	
Triforine	
Ecology - soil	If released to soil, triforine is expected to have very moderate mobility based upon a Koc of 200. Volatilization from moist soil surfaces is not expected to be an important fate process. If released into water, triforine is not expected to adsorb to suspended solids and sediment based upon the Koc.











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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:	
	Triforine is considered of low hazard to honeybees and earthworms at recommended dose rates.

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				
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, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent, surfactant), 3, 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.	L2469 / N-AR0131 / W130281
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:	Allow the following number of days between last application and harvesting or feeding/grazing Cucurbits: 1 day; Beans: 3 days; Peas: 4 days
	Keep out of reach of children, uninformed persons and animals.
	Store away from food and feed.
	FLAMMABLE - Keep away from fire
	Do not breathe spray mist and avoid skin contact.

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	Do not eat, drink or smoke whilst applying or before washing hands and face.
	Avoid contamination of food, eating utensils, drinking water, other edible crops and fishponds.
	Destroy empty container and do not re-use for any other purpose.
WHO-classification:	II (Moderately hazardous)
Classification according to GHS:	Category 4
FRAC Fungicide Group Code:	3
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:			
H226	Flammable liquid and vapour.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation		
H332	Harmful if inhaled.		
H336	May cause drowsiness or dizziness.		
H360	May damage fertility or the unborn child		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Flam. Liq. 3	H226	Calculation method.	
Skin Irrit. 2	H315	Calculation method.	
Eye Irrit. 2	H319	Calculation method.	
Acute Tox. 4	H332	Calculation method.	
STOT SE 3	H336	Calculation method.	
Repr. 1B	H360	Calculation method.	
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 2	Flammability - 2	Physical Hazard - 1	PPE - 2
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		

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	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.

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.

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End of Safety Data Sheet