


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

SDS Number: 000041
 Issue Date: 2023-05-01
 Print Date: 2024-11-21

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

Product identifier				
Product form	Mixtures			
Trade name	Eco Insect Control SC			
Product code	50ml 31108 (6001379103266)			
Registration Number	L7232; N-AR0750; W130208			
SDS Number	000041			
1.1. Relevant identified uses of the substance or mixture and uses advised against				
1.1.1. Relevant identified uses				
Main use category	Insecticide.			
Industrial/Professional use spec	Home and Garden.			
Use of the substance/mixture	Insecticide.			
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 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.
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
	
Hazard pictograms:	GHS09
Hazardous components which must be listed on the label:	• Spinosad
CLP Signal word:	Warning.
Hazard statements:	
Precautionary statements:	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P270 - Do not eat, drink or smoke when using this product.
Hazard statements:	H410 - Very toxic to aquatic life with long lasting effects. EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
Response Precautionary Statements:	P391 - Collect spillage 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	
	Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 3: Composition/information on ingredients

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3.1. Substances					
					Suspension concentrate (SC)
					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
Spinosad (2R,3aS,5aR,5bS,9S,13S,14R,16aS,16bR)-13-[[[(2R,5S,6R)-5-(dimethylamino)-6-methyloxan-2-yl]oxy]-9-ethyl-14-methyl-2-[[[(2R,3R,4R,5S,6S)-3,4,5-trimethoxy-6-methyloxan-2-yl]oxy]-1H,2H,3H,3aH,5aH,5bH,6H,7H,9H,10H,11H,12H,13H,14H,15H,16aH,16bH-as-indaceno[3,2-d]oxacyclododecane-7,15-dione; (2S,3aR,5aS,5bS,9S,13S,14R,16aS,16bS)-13-[[[(2R,5S,6R)-5-(dimethylamino)-6-methyloxan-2-yl]oxy]-9-ethyl-4,14-dimethyl-2-[[[(2R,3R,4R,5S,6S)-3,4,5-trimethoxy-6-methyloxan-2-yl]oxy]-1H,2H,3H,3aH,5aH,5bH,6H,7H,9H,10H,11H,12H,13H,14H,15H,16aH,16bH-as-indaceno[3,2-d]oxacyclododecane-7,15-dione (Hazard classification of this material is based on the worst possible case)	168316-95-8	434-300-1	12 %	Aquatic Acute 1: H400. Aquatic Chronic 1: H410.	
Propylene glycol propane-1,2-diol (Hazard classification of this material is based on the worst possible case)	57-55-6	200-338-0	< 10.0 %	Not classified	
Other ingredients (non-hazardous) to 100%				Balance	
Further information					
Spinosad	168316-95-8	M-Factor: 10 (acute); 10 (chronic)			
Spinosad is comprised of Spinosyn A (CAS # 131929-60-7) and Spinosyn D (CAS # 131929-63-0)					
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	
	Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
4.3. Indication of any immediate medical attention and special treatment needed	
	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control centre or doctor, or going for treatment.

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	
	Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

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5.3. Advice for firefighters	Special protective equipment for fire-fighters
	Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS.
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.
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
Spinosad	168316-95-8	0,3 mg/m ³	TWA	Dow IHG
Propylene glycol	57-55-6	10 mg/m ³	TWA	US WEEL
		10 mg/m ³	TWA OEL-RL particulate	ZA OEL
		470 mg/m ³ 150 ppm	TWA OEL-RL Vapour + particulates	ZA OEL
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:		Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit		

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	requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
Hand protection:	Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
Eye protection:	Tightly fitting safety goggles.
Skin and body protection:	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory protection:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or were indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.
	
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	Off-white
Odour	Mild
Odour threshold	No data available
Melting point / Freezing point	No data available
Boiling point or initial boiling point and boiling range	> 100°C
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	closed cup > 100 °C EC Method A9 none below boiling point
Auto ignition temperature	EC Method A15 none below 400 °C
Decomposition temperature	No data available
pH	7.52 CIPAC MT 75.1 (neat)
Kinematic viscosity	No data available
Solubility	Soluble
Partition coefficient octanol / water (log value)	No data available
Vapour pressure	No data available
Density Solubility	1,09 g/ml at 20 °C
Relative density	No data available
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

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11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Spinosad	
LD50 oral rat	LD50 (rat) > 5,000 mg/kg
LD50 dermal rat	LD50 (rat) > 5,000 mg/kg
LC50 inhalation rat (mg/l)	LC50 (Rat) > 5.00 mg/l 4 hours
ATE CLP (vapours)	3.200 mg/l/4h
ATE CLP (dust, mist)	3.200 mg/l/4h
Skin corrosion/irritation	Prolonged contact may cause slight skin irritation with local redness.
Serious eye damage/irritation	May cause moderate eye irritation. Corneal injury is unlikely.
Respiratory or skin sensitisation	Did not cause allergic skin reactions when tested in guinea pigs.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	In animals, Spinosad has been shown to cause vacuolization of cells in various tissues. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. For the minor component(s): Repeated excessive exposures may cause Diarrhea.
Aspiration hazard	Based on available information, aspiration hazard could not be determined.
Assessment mutagenicity	For the active ingredient(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative. For the minor component(s): In vitro genetic toxicity studies were negative in some cases and positive in other cases.
Assessment carcinogenicity	For the active ingredient(s): Did not cause cancer in laboratory animals. Contains component(s) which did not cause cancer in laboratory animals.
Assessment toxicity to reproduction	For the active ingredient(s): In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. For the minor component(s): In animal studies, has been shown to interfere with reproduction. In animal studies, has been shown to interfere with fertility. However, the relevance of this to humans is unknown.
Assessment developmental toxicity	No data available.
Further information	No data available.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general:	Very toxic to aquatic life with long lasting effects.
Spinosad A & D	
LC50 fish	Lepomis macrochirus (Bluegill sunfish), 96 Hour, 5.9 mg/l Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).
EC50 Daphnia 1	Daphnia magna (Water flea), 48 Hour, 1.9 mg/l, OECD Test Guideline 202 or Equivalent
ErC50 (algae)	Pseudokirchneriella subcapitata (green algae), 7 d, 39 mg/l
Toxicity to bacteria	Bacteria, > 100 mg/l
Bees LD50 (oral)	0.049 µg
Bees LC50 (contact)	0.05 µg
Earthworm LC50 (14 days)	LC50, Eisenia fetida (earthworms), 14 d, > 458 mg/kg
Birds Oral LD50	Oral LD50, Colinus virginianus (Bobwhite quail), > 2000mg/kg bodyweight.
Birds LC50 (8-day diet)	Dietary LC50, Colinus virginianus (Bobwhite quail), 5 d, > 5253mg/kg diet.
Propylene glycol	
LC50 fish 1	Oncorhynchus mykiss (rainbow trout), static test, 96 Hour, 40 613 mg/l, OECD Test Guideline 203
EC50 Daphnia 1	Ceriodaphnia dubia (water flea), static test, 48 Hour, 18 340 mg/l, OECD Test Guideline 202
ErC50 (algae)	Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate inhibition, 19 000 mg/l, OECD Test Guideline 201
Toxicity to bacteria	NOEC, Pseudomonas putida, 18 Hour, > 20 000 mg/l
Bees LD50 (oral)	> 221µg
Bees LC50 (contact)	> 200µg
Earthworm LC50 (14 days)	1 320 mg/kg
Birds Oral LD50	Colinus virginianus (Bobwhite quail), 2,000 mg/kg
Propylene glycol	
LC50 fish 1	LC50, Cyprinus carpio (Carp), semi-static test, 48 Hour, 308 mg/l

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12.2. Persistence and degradability	
Spinosad A & D	
Persistence and degradability	Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD > 40%). Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. 10-day Window: Fail Biodegradation: < 1 % Exposure time: 28 d Method: OECD Test Guideline 301B or Equivalent
Propylene glycol	
Persistence and degradability	Biodegradation may occur under anaerobic conditions (in the absence of oxygen). 10-day Window: Pass Biodegradation: 81 % Exposure time: 28 d Method: OECD Test Guideline 301F or Equivalent 10-day Window: Not applicable Biodegradation: 96 % Exposure time: 64 d Method: OECD Test Guideline 306 or Equivalent
12.3. Bioaccumulative potential	
Spinosad A & D	
Log Pow	Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Partition coefficient: n-octanol / water (log Pow): 4.01 Bioconcentration factor (BCF): 33 Fish 28 d Measured
Propylene glycol	
Log Pow	Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partition coefficient: n-octanol / water (log Pow): -1.07 Measured Bioconcentration factor (BCF): 0.09 Estimated.
12.4. Mobility in soil	
Spinosad A & D	
Ecology - soil	Expected to be relatively immobile in soil (Koc > 5000). Partition coefficient (Koc): 35024
Propylene glycol	
Ecology - soil	Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Potential for mobility in soil is very high (Koc between 0 and 50). Partition coefficient (Koc): < 1 Estimated.
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				

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UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD MIXTURE), 9, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD MIXTURE), 9, III, MARINE POLLUTANT/ENVIRONM ENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD MIXTURE), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD MIXTURE) 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. L7232; N-AR0750; W130208

Signal word: Caution!

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:

- Avoid inhalation of spray mist.
- Wash with soap and water after use or accidental skin contact.
- Wear gloves when mixing and applying.
- Avoid contamination of eyes and in case of accidental contact with eyes, wash with running water for at least 15 minutes.
- Do not eat, drink or smoke whilst mixing and applying or before washing hands and face.
- Avoid spray drift onto other vegetables and fishponds.
- Clean applicators before using for other remedies and dispose of wash water where it will not contaminate vegetables, rivers and fishponds.
- Dispose of empty containers in a safe place and do not reuse for anything else.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

WHO-classification: III Slightly hazardous

IRAC Insecticide Group Code: 5A

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:

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401 -	To avoid risks to human health and the environment, comply with the instructions for use.

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

Aquatic Acute 1	H400	On basis of test data.
Aquatic Chronic 1	H410	Calculation method.

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HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 1	Flammability - 0	Physical Hazard - 0	PPE - 1
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.		
<p>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.</p> <p>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.</p> <p>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.</p>			
Prepared BY: Nico Lionel van der Westhuis – Technical Support Marketing			
SDS EU (REACH Annex II) Update 1 May 2023			
End of Safety Data Sheet			