



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

SDS Number: 000040
 Issue Date: 2021-05-01
 Print Date: 2021-05-18

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

Product identifier				
Product form		Mixtures		
Trade name		Steriseal		
Product code		100ml 20531 (6001379100685)		
Registration Number		L4231 / N-AR0154 / W130196		
SDS Number		000040		
1.1. Relevant identified uses of the substance or mixture and uses advised against				
1.1.1. Relevant identified uses				
Main use category		Fungicide - A fungicidal pruning wound paste. For use on roses, grapevines, shrubs and fruit trees after pruning		
Industrial/Professional use spec		Home and Garden.		
Use of the substance/mixture		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 trading as Efekto 15 Diesel Road, Isando, 1600, South Africa P.O. Box 652147, Benmore, 2010, South Africa		
Telephone		+27 11 (011) 287 5700		
Email		info@efekto.co.za		
Website		www.efekto.co.za		
1.4. Emergency telephone number				
Country	Organisation/Company	Address	Emergency number	Comment
South Africa	Griffon Poisons Centre		082 446 8946	

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 4: H302 Harmful if swallowed.		
		Acute aquatic toxicity: Category 1: H400 Very toxic to aquatic life.		
2.2. Label elements				
Labelling according to Regulation (EC) No. 1272/2008 [CLP]				
		 		
Hazard pictograms:	GHS07	GHS09		
Hazardous components which must be listed on the label:		<ul style="list-style-type: none"> • Busan 1009 • 8-hydroxyquinolinesulfate 		
CLP Signal word:		Warning.		
Hazard statements:		H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction. H400 - Very toxic to aquatic life. EUH066 - Repeated exposure may cause skin dryness or cracking. EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.		
Precautionary statements:		P102 - Keep out of reach of children. P103 - Read label before use. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment.		
Response Precautionary Statements:		P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 - IF ON SKIN: wash with plenty of water. P330 - Rinse mouth. P333+P313 - IF SKIN irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P305 + P 351 + P338 IF IN EYES - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P311 - If exposed or concerned: CALL POISON CENTRE / doctor / physician.		

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	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	
	Keep away from surface waters.

SECTION 3: Composition/information on ingredients

3.1. Substances					
	Paste (PA)				
	Biocidal product				
3.2. Mixtures					
	Chemical Name	CAS-No.	EC – Number	Conc. % by weight	Classification
	Busan 1009	6317-18-6	228-652-3	0.1 %	Acute toxicity 4, (H302) Sensitization Skin 1B, (H317) Aquatic Acute 1, (H400)
	8-hydroxyquinolinesulfate	134-31-6	205—137-1	0.1 %	Acute toxicity 4, (H302) Aquatic Acute 1, (H400)
	Other ingredients (non-hazardous) to 100%			Balance	
Further information					
No data available					
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	
No information available.	
4.3. Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.	

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.	

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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
Busan 1009	6317-18-6	No specific official limit.		
8-hydroxyquinolinesulfate	134-31-6	No specific official limit.		
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.			

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Pate
Colour	Pink
Odour	Slight aromatic
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	> 100°C
Auto ignition temperature	400 °C
Decomposition temperature	No data available
pH	6.4 at 100 % (20 °C)
Kinematic viscosity	No data available
Solubility	Insoluble
Partition coefficient octanol / water (log value)	No data available
Vapour pressure	No data available
Density Solubility	No data available
Relative density	1,0 g/cm ³ 20 °C
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
LD50 oral rat	LD50 (rat) > 15,000 mg/kg Calculated
LD50 dermal rat	LD50 (rabbit) > 4,000 mg/kg Calculated
LC50 inhalation rat (mg/l)	LC50 (Rat) > Not relevant
Skin corrosion/irritation	Moderate skin irritation (Rabbit)
Serious eye damage/irritation	Moderate eye irritation. (Rabbit)
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not relevant.
Assessment mutagenicity	No known significant effects or critical hazards.
Assessment carcinogenicity	There are no known carcinogenic chemicals in this product.
Assessment toxicity to reproduction	No known significant effects or critical hazards.
Assessment developmental toxicity	No known significant effects or critical hazards.
Further information	No data available.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

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12.3. Bioaccumulative potential	
No information available.	
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				
Not Regulated				
14.2. UN proper shipping name				
Transport document description				
14.3. Transport hazard class(es)				
14.4. Packing group				
14.5. Environmental hazards				

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Registration No.	L4231 / N-AR0154 / W130196
Signal word:	Harmful!
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:	Store away from food and feed. Keep out of reach of children, uninformed persons and animals. Wash with soap and cold water after use. Prevent contamination of food, feed, utensils and drinking water. Destroy empty container and do not re-use for any other purpose.
WHO-classification:	II (Moderately hazardous)
FRAC Insecticide Group Code:	N/A
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

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Full text of H- and EUH-statements:			
H302	Harmful if swallowed.		
H317	May cause an allergic skin reaction.		
H400	Very toxic to aquatic life.		
EUH066	Repeated exposure may cause skin dryness or cracking.		
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]:			
Acute Tox. 4	H302	Calculation method.	
Sensitization - Skin	H317	Calculation method.	
Aquatic Acute 1	H400	Expert judgment.	
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)			
Health - 1	Flammability - 0	Physical Hazard - 0	PPE -
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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End of Safety data Sheet			