

Zero Rat

Safety Data Sheet

According to (EC) 1907/2006 (REACH) amendment Reg. (EU) 2020/878



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

SDS Number: 000018
Issue Date: 2026-01-01
Print Date: 2026-02-10

Agro-Serve encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container.

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

1.1. Product identifier

Product form	Mixtures
Trade name	Zero® Rat
Registration Number	L11269
SDS Number	000018

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

1.2.1. Relevant identified uses

Main use category	Rat & Mouse Control.
Industrial/Professional use spec	Home and Garden.
Use of the substance/mixture	Rodenticide.

1.2.2. Uses advised against

	See product label for restrictions.
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1.3. Details of the supplier of the safety data sheet

Supplier	BASF SE 67056 Ludwigshafen GERMANY
Distributor	Agro-Serve (Pty) Ltd 15 Diesel Road, Isando, 1600, South Africa PO Box 1189, Isando, 1600, South Africa
Telephone	+27 861 333 586 08h00 – 17h00 Monday to Friday
Email	info@efekto.co.za
Website	www.efekto.co.za

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Poisons Centre				
South Africa	Griffon Poisons Centre		082 446 8946	Dr Gerhard H Verdoorn
South Africa	Poisons Information Helpline		0861 555 777	
Spillage				
South Africa	Spill Tech		086 100 0366	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures

	If medical advice is needed, have product container or label at hand.
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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:	
Hazardous components which must be listed on the label:	• Cholecalciferol (secosteroid)
CLP Signal word:	If medical advice is needed, have product container or label at hand.
Hazard statements:	
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:	P234: Keep only in original container.
Response Statements:	P391: Collect spillage.
Storage Statements:	P410: Protect from sunlight.
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	None known.

Refer to section 11 for toxicological and section 12 for environmental information

SECTION 3: Composition/information on ingredients

3.1. Substances

	Biocidal product
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3.2. Mixtures

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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Chemical Name	CAS-No.	EC – Number	Conc. % by weight	Classification	Warning Symbols
Colecalciferol (Hazard classification of this material is based on the worst possible case)	67-97-0	200-673-2	0.075 %		
Oils, palm (Hazard classification of this material is based on the worst possible case)	8001-30-7	232-281-2	< 30 %		
Sucrose (Hazard classification of this material is based on the worst possible case)	57-50-1	200-334-9	< 15 %		
Wheat flour (Hazard classification of this material is based on the worst possible case)	130498-22-5	310-127-6	< 15 %		
Other ingredients (non-hazardous) to 100%		Balance		100 %	
Further information					
For the full text of the Hazard statements mentioned in this Section, see Section 16.					

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice	When possible, have the product container or label with you when calling a poison control centre or doctor or going for treatment.
First-aid measures after inhalation	Keep patient calm, remove to fresh air.
First-aid measures after skin contact	Wash thoroughly with soap and water.
First-aid measures after eye contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
First-aid measures after ingestion	Rinse mouth and then drink 200-300 ml of water.

4.2. Most important symptoms and effects, both acute and delayed

	Symptoms: (Further) symptoms and / or effects are not known so far. Hazards: Chronic overexposure has been reported to cause hypercalcemia.
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4.3. Indication of any immediate medical attention and special treatment needed

	Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.
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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

	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: Carbon monoxide. Carbon dioxide.
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5.3. Advice for firefighters

	Special protective equipment for fire-fighters Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
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5.3. Further information

	In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
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5.4. Flash point

	Does not flash.
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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.
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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".
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6.2. Environmental precautions

	Do not allow to enter soil, waterways or wastewater canal.
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6.3. Methods and material for containment and cleaning up

For containment	Collect spillage.
Methods for cleaning up	For small amounts: Contain with dust binding material and dispose of.

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	For large amounts: Sweep/shovel up. Avoid raising dust. Collect waste in suitable containers, which can be labelled and sealed. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.
Other information	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.
	Do not apply in the open – cover bait points or use bait boxes. If dead and/or dying rats or mice are found during and after the control program, these must be cleared away immediately in order to avoid secondary poisoning phenomena.
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	Segregate from foods and animal feeds. Odour-sensitive: Segregate from products releasing odours. Further information on storage conditions: Keep only in the original container in a cool, well ventilated place. Keep container dry. Keep away from heat. Protect from direct sunlight. Protect against moisture.
Storage stability	Storage duration: 24 Months
Storage temperature	>0°C <40°C
7.3. Specific end use(s)	
	Refer to the label and/or leaflet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters				
Components	CAS-No.	Exposure limit(s)	Type of exposure limit	Source
	No specific occupational exposure limit has been established.			
RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.				
8.2. Exposure controls				
8.2.1. Appropriate engineering controls		In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply. 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 requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.		
8.2.2.1. Hand protection		Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.		
8.2.2.2. Eye protection		Safety glasses with side-shields (frame goggles) (e.g. EN 166).		
8.2.2.3. Skin and body protection		Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before reuse, or use disposable equipment (suits, aprons, sleeves, boots, etc.) Wear as appropriate: impervious protective suit.		
8.2.2.4. Respiratory protection		Not required.		
				
8.2.2.5. General protective measures		Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.		
8.2.3. Environmental exposure controls		Avoid release to the environment. For information regarding environmental exposure controls, see Section 6.		

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8.3. Additional emergency measures			
Emergency measure	Emergency measure	Emergency measure	Emergency measure
	Emergency shower ISO 3864-1:2011, ISO 3864-4:2011		Eyewash stations ISO 3864-1:2011, ISO 3864-4:2011

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
1. Physical state	Solid
2. Colour	Grey - green
3. Odour	Sweetish, faint 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	No data available
7. Flammability	Non-flammable
8. Lower and upper explosion limit	Not applicable
9. Flash point	Does not flash
10. Auto ignition temperature	318,0 °C Method: EEC A.15
11. Decomposition temperature	180 °C, 270 kJ/kg (DSC (OECD 113)) (onset temperature) 280 °C, 30 kJ/kg (DSC (OECD 113)) (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1
12. pH	5 – 7 (CIPAC standard water D, 1 %(m), 20 °C)
13. Kinematic viscosity	No data available
14. Solubility water	No data available
15. Partition coefficient octanol / water (log value)	No data available
16. Vapour pressure	No significant volatility; aqueous solution
17. Density Solubility	Not applicable
18. Relative density	approx. 1,32 g/cm ³ (20 °C)
19. Particle characteristics	Not applicable
9.2. Other information	No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
10.4. Conditions to avoid	Extremes of temperature and direct sunlight.
10.5. Incompatible materials	Store only in the original container.
10.6. Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Formulated Product	
LD50 oral rat	LD50 male rat, > 5 000 mg/kg
LD50 dermal rat	LD50 male and female rabbit, > 5 000 mg/kg
LC50 inhalation rat (mg/l)	No data available
Skin irritation	Not irritating to the skin. Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)
Eye irritation	Not irritating to the eyes Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)
Sensitisation	There is no evidence of a skin-sensitizing potential. Guinea pig maximization test guinea pig: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)
STOT-single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure. Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.
STOT-repeated exposure	Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.
Aspiration hazard	No aspiration hazard expected. The product has not been tested. The statement has been derived from the properties of the individual components.
Assessment mutagenicity	Not mutagenic. The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

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Assessment carcinogenicity	The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.
Assessment toxicity to reproduction	The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.
Assessment developmental toxicity	Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.
Further information	No additional information available.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general:	There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested.
12.2. Persistence and degradability	
	Assessment biodegradation and elimination (H ₂ O): The product has not been tested.
12.3. Bioaccumulative potential	
	The product has not been tested.
12.4. Mobility in soil	
Ecology - soil	Assessment transport between environmental compartments: Volatility: The product has not been tested.
12.5. Results of PBT and vPvB assessment	
	This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB)
12.6. Endocrine disrupting properties:	
	No additional information available.
12.7. Other adverse effects:	
	Data are not available.

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.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2. UN proper shipping name				
Not classified as dangerous	Not classified as dangerous	Not classified as dangerous	Not classified as dangerous	Not classified as dangerous
Transport document description				
14.3. Transport hazard class(es)				
-	-	-	-	-
14.4. Packing group				
-	-	-	-	-
14.5. Environmental hazards				
No.	No.	No.	No.	No.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Registration No.	L11269
This chemical is a registered pesticide product and is subject to certain labelling requirements under law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label.	
WHO-classification:	IV (Acute hazard unlikely under normal use)
Classification according to GHS:	Cat. 5: Unclassified
15.2. Chemical safety assessment	No chemical safety assessment has been carried out.

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SECTION 16: Other information			
Indication of changes:			
Section	Changed item	Change	Comments
Full text of H- and EUH-statements:			
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
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 - Agreement concerning the International Carriage of Dangerous Goods by Road; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative			
This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Agro-Serve (Pty) Ltd does not accept responsibility for damage caused by incorrect use of this information.			
Training and related advice: This document contains important information to ensure the safe storage, handling of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to staff and that all necessary training has been given. This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.			
Prepared BY: Nico Lionel van der Westhuis – Technical Support Specialist			
SDS EU (REACH Annex II) Update 1 January 2026			
End of Safety Data Sheet			