



SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Seizer 80 SC

Revision date 12-Jul-2023

Version 4 Supersedes Date: 29-Jul-2019

Product Code(s) INS00089-27

Print Date 12-Jul-2023

ADM.03500.1.2.A 9500995

1. Identification

Product identifier

Seizer 80 SC

Other means of identification

Synonyms	Bifenthrin 80 SC
Formulation type	SC
Registration Number(s)	L7580
Pure substance/mixture	Mixture

Recommended use of the chemical and restrictions on use

Recommended use	Insecticide; Professional use
Uses advised against	No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier

ADAMA SOUTH AFRICA (PTY) LTD
Ground Floor, Simeka House
The Vineyards Office Estate
99 Jip de Jager Drive
Bellville 7530

Emergency telephone number

Emergency Telephone	+27 82 446 8946 (Griffon Poison Centre) +27 86 155 5777 (Tygerberg Poison Information Centre) +27 86 100 6366 and +27 83 253 6618 (SPILL TECH)
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E-mail address	infocpt@adama.com
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2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

Label elements

Signal word Danger

Hazard pictograms



Hazard statements

H302 - Harmful if swallowed
 H331 - Toxic if inhaled
 H410 - Very toxic to aquatic life with long lasting effects

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
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P271 - Use only outdoors or in a well-ventilated area
 P273 - Avoid release to the environment
 P301+317 - IF SWALLOWED: Get medical help
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P316 - Get emergency medical help immediately
 P321 - Specific treatment (see supplemental first aid instructions on this label)
 P330 - Rinse mouth
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
 P405 - Store locked up
 P501 - Dispose of contents/container in accordance with national regulation

Additional information

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Synonyms

Bifenthrin 80 SC

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Bifenthrin	82657-04-3	6-9		Acute Tox. 3 (H301) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Acute 1 (H400)	

				Aquatic Chronic 1 (H410)	M=10000 M=100000
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Full text of H- and EUH-phrases: see section 16

Additional information

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Seizer 80 SC and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021, Regulation 14(b), not listed in the table above.

4. First-aid measures

Description of necessary first aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. Get medical attention immediately if symptoms occur.

For emergency responders

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms/effects, acute and delayed

Symptoms None known.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the chemical No information available.

Explosive properties No data available.

Specific/special fire-fighting measures

Specific/special fire-fighting measures No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Precautions for safe handling

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

Eye/face protection Tight sealing safety goggles.

Skin and body protection Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Color	: opaque white		
Odor	: Faint characteristic		
Odor threshold	: No data available		
pH	: 4.3 - 5.3	EPA-OPPTS 830.7000	1 % aqueous solution
Melting point / freezing point °C	: No data available		Not applicable
Boiling point / boiling range °C	: No data available		
Flash point °C	: No data available		
Evaporation rate	: -		No data available
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: No data available		Not applicable
Vapor density	: No data available		
Relative density	: 1.025 - 1.035	EPA-OPPTS 830.7300	
Solubility(ies) mg/l	: No data available		Not applicable
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm²/s 40 °C	: 44.7 - 228.6	EPA-OPPTS 830.7100	
Explosive properties	: No data available		

Oxidizing properties	: No data available	
Surface tension	: No data available	No data available
Particle Size	: Not applicable	

Other information

Bulk density g/ml : Not applicable

10. Stability and reactivity**Reactivity**

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Excessive heat.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

	Values	Species	Method	Remarks
Oral LD50 mg/kg	: 630	Rat	EPA-OPPTS 870.1100	
Dermal LD50 mg/kg	: > 2000	Rat	EPA-OPPTS 870.1200	
Inhalation LC50 LC50	: 0.55	Rat	EPA-OPPTS 870.1300	female
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	EPA-OPPTS 870.2500	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	EPA-OPPTS 870.2400	
Sensitization	: Not a skin sensitizer	Guinea pig	EPA-OPPTS 870.2600	

Chronic toxicity

Germ cell mutagenicity

Chemical name Bifenthrin	: Not classified
Carcinogenicity Chemical name Bifenthrin	: Not classified
Reproductive toxicity Chemical name Bifenthrin	: Not classified
STOT - Single Exposure Chemical name Bifenthrin	: No data available
STOT - Repeated Exposure Chemical name Bifenthrin	: No data available
Aspiration hazard Chemical name Bifenthrin	: No data available

12. Ecological information

Ecotoxicity

Aquatic toxicity

Acute toxicity	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: No data available			
Crustacea 48-hour EC50 mg/l	: No data available			
Algae 72-hour EC50 mg/l	: No data available			
Other plants EC50 mg/l	: No data available			

Chronic aquatic toxicity	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	: No data available			
Crustacea NOEC mg/l	: No data available			
Algae NOEC mg/l	: No data available			
Other plants NOEC mg/l	: No data available			

Terrestrial Toxicity

Birds Oral LD50 mg/kg Chemical name Bifenthrin	: 1800	Bobwhite quail	EPA-OPPTS 850.2100	
Bees Oral LD50 µg/bee Chemical name Bifenthrin	: 0.39		OECD 213 OECD 214	Oral

Abiotic Degradation

Water DT50 days Chemical name Bifenthrin	: 161.1
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Soil DT50 days
Chemical name

Bifenthrin	: 86.8		Field
Biodegradation			
Chemical name			
Bifenthrin	: No data available		
Log Pow			
Chemical name			
Bifenthrin	: > 6.71	<u>Method</u>	<u>Remarks</u>
		OECD 107	
Bioconcentration factor (BCF)			
Chemical name			
Bifenthrin	: 417	OECD 305	
Adsorption/Desorption			
Chemical name			
Bifenthrin	: 236,610		<u>Remarks</u>
			KOC Not mobile

13. Disposal considerations

Disposal methods

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport information

ADR

14.1 UN number	UN3352
14.2 UN proper shipping name	PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin)
14.3 Transport hazard class(es)	6.1
Labels	6.1
14.4 Packing group	III
Description	UN3352, PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin), 6.1, III, (E), Environmentally Hazardous
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 274, 648
Classification code	T6
Tunnel restriction code	(E)

RID

14.1 UN number	UN3352
14.2 UN proper shipping name	PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin)
14.3 Transport hazard class(es)	6.1
Labels	6.1
14.4 Packing group	III
Description	UN3352, PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin), 6.1, III, Environmentally Hazardous
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 274, 648
Classification code	T6

IMDG

14.1 UN number	UN3352
14.2 UN proper shipping name	PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin)
14.3 Hazard Class	6.1
14.4 Packing group	III
Description	UN3352, PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin), 6.1, III, Marine pollutant
14.5 Marine pollutant	P
Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 223, 274
EmS-No	F-A, S-A
IMDG Stowage and segregation	Category A SW2
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

IATA

14.1 UN number	UN3352
14.2 UN proper shipping name	PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN3352, PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin), 6.1, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	A3, A4
ERG Code	6L

**15. Regulatory information****Safety, health and environmental regulations specific for the product in question**

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

16. Other information**Full text of H-Statements referred to under section 3**

H301 - Toxic if swallowed
H318 - Causes serious eye damage
H331 - Toxic if inhaled
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 12-Jul-2023

Revision Note Changes made to the last version are labeled with this sign ***.

Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG International Maritime Dangerous Goods (IMDG)
 IATA International Air Transport Association (IATA)
 ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 CAS Number - Chemical Abstracts Service number
 EC Number - EINECS and ELINCS Number
 EINECS - European Inventory of Existing Commercial Substances
 ELINCS - European List of notified Chemical Substances
 IATA - International Air Transport Association
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
 IMDG - International Maritime Dangerous Goods
 LC50 - Lethal Concentration to 50 % of a test population
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
 OECD - Organization for Economic Co-operation and Development
 PBT - Persistent, Bioaccumulative and Toxic substance
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
 STOT - Specific Target Organ Toxicity
 vPvB - Very Persistent and Very Bioaccumulative

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture

H302 - Harmful if swallowed
 H331 - Toxic if inhaled
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects

Classification procedure

Classification based on test data
 Classification based on test data
 Classification based on Calculation method
 Classification based on Calculation method

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet