

SAFETY DATA SHEET

Seizer 100 EC

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 25-Sep-2020
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 1
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 INS00165-27

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

Product identifier

Seizer 100 EC

Synonyms Bifenthrin 100 EC

Pure substance/mixture Mixture Formula EC

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

Recommended Use Insecticide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA SOUTH AFRICA (PTY) LTD

Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive

Bellville 7530

For further information, please contact

Email address SDS@ADAMA.COM

Emergency Telephone

Emergency Telephone + 27 82 446 8946

+ 27 86 155 5777 + 27 21 982 1460

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Aspiration toxicity

Acute toxicity - Oral

Skin corrosion/irritation

Serious eye damage/eye irritation

Specific target organ toxicity (single

Category 1 - (H302)

Category 2 - (H315)

Category 1 - (H318)

Category 3 - (H336)

exposure)

Specific target organ toxicity (repeated Category 2 - (H373)

exposure)

Acute aquatic toxicity

Chronic aquatic toxicity

Category 1 - (H400)

Category 1 - (H410)

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Flammable liquids

Category 4 - (H227)

Label Elements

Hazard pictograms



Signal word

Danger

Hazard Statements

H227 - Combustible liquid H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking

P243 - Take precautionary measures against static discharge P260 - Do not breathe dust/fume/gas/mist/vapors/spray P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves and eye/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P331 - Do NOT induce vomiting

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Bifenthrin	9-12	82657-04-3		Acute Tox. 3 (H301) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10000 M=100000
Solvent naphtha, petroleum, heavy arom.	76-85	64742-94-5	265-198-5	Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	
Benzenesulfonic acid, C10-13-(linear)alkyl derivs., calcium salt	2-4	N/A	932-231-6	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	
2-Ethylhexan-1-ol	1-3	104-76-7	203-234-3	Acute Tox. 4 (H332)	

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		Skin Irrit. 2 (H315)	
		Eye Irrit. 2 (H319)	
		STOT SE 3 (H335)	

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if 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 Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician.

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

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

Combustible material.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
2-Ethylhexan-1-ol					TWA: 10 ppm
104-76-7					TWA: 54 mg/m ³
					Ceiling / Peak: 10 ppm
					Ceiling / Peak: 54
					mg/m³
					TWA: 20 ppm
					TWA: 110 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
2-Ethylhexan-1-ol	Skin	STEL: 20 ppm	STEL: 320 mg/m ³		
104-76-7	STEL 100 ppm	STEL: 110 mg/m ³	TWA: 160 mg/m ³		
	STEL 540 mg/m ³	TWA: 20 ppm	_		
	TWA: 50 ppm	TWA: 110 mg/m ³			
	TWA: 270 mg/m ³				

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Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

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).

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.

Respiratory protection Use only with adequate ventilation.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: liquid		
Color	: clear Yellowish		
Odor	: chemical		
Odor threshold	: No data available		
pH	: 5.2 - 6.2		solution (1 %)
Melting point/freezing point °C	: No data available		Not Applicable

Boiling point/freezing point °C : No data available Soiling point/boiling range °C : No data available

Flash point °C : 67
Evaporation rate : -

Flammability (solid, gas) : Not applicable for liquids

Upper/lower flammability or : No data available

explosive limits

Vapor pressurekPa: No data availableVapor density: No data available

Relative density : 0.88 - 0.98

Solubility(ies) mg/l : No data available Not Applicable

Partition Coefficient : See Section 12 for more

(n-octanol/water) Log Pow
Autoignition temperature °C : No data available

Decomposition temperature °C : No data available : No data available

Kinematic viscosity mm2/s 40 °C : 1.86 20°C

Explosive properties : No data available Oxidizing properties : No data available

Other Information

Bulk densityg/ml:Not ApplicableSurface tensionmN/m:-No data available

Section 10: STABILITY AND REACTIVITY

No data available

Not Applicable

information

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Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

Acute toxicity					
		<u>Values</u>	Species	<u>Method</u>	Remarks
Oral LD50 mg/kg	:	300 - 2000	Rat	OECD 423	
Dermal LD50 mg/kg	:	> 4000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	:	> 5.25	Rat	OECD 403	
Skin corrosion/irritation	:	Irritating to skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	:	Serious eye damage/eye irritation	Rabbit	OECD 405	
Respiratory/skin sensitization	:	Not a skin sensitizer	Guinea pig	OECD 406	

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

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Chemical Name

Bifenthrin : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity Values_ Method Remarks Species

Fish 96-hour LC50 ma/l 0.031 Poecilia reticulata **OECD 203** No data available

Crustacea 48-hour EC50 mg/l Algae 72-hour EC50 mg/l No data available : Other plants EC50 mg/l No data available

Chronic aquatic toxicity Values Species Method Remarks

No data available Fish NOEC mg/l 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 Oral

214

Persistence and degradability

Abiotic Degradation Method Remarks Values

Water DT50 days **Chemical Name**

Bifenthrin : 161.1

Soil DT50 days **Chemical Name**

Bifenthrin : 86.8

Biodegradation Chemical Name

Bifenthrin : No data available

Bioaccumulative potential

Partition Coefficient <u>Values</u> <u>Method</u> **Remarks**

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

Chemical Name

Bifenthrin : > 6.71 **OECD 107**

Bioconcentration factor (BCF)

Chemical Name

Bifenthrin **OECD 305** : 417

Mobility in soil

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Field

Adsorption/Desorption Values Method Remarks

Chemical Name

Bifenthrin : 236,610 KOC, Not mobile

Results of PBT and vPvB assessment

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

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

products

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenthrin)

Hazard Class 9
Packing Group III
Marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenthrin)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

ICAO/IATA

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenthrin)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code

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* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H227 - Combustible liquid

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

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

H412 - Harmful to aquatic life with long lasting effects

Revision Note

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

List of 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

Disclaimer

The information provided in this Material 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