

Sharda International Africa (Pty) Ltd

(Co. Reg. No. 2010/002268/07)

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011,

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

SECTION 1. Chemical product and company identification

Product identifier:

Identification as on the label/Trade name: **Sharda Bifenthrin 100 EC**

Additional information: Bifenthrin

Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticides

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Company name: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Phone number.: 031-764-3011

Emergency telephone numbers:

UNITAS Hospital: 0800-111-9900

Tygerberg Hospital: 021-931-6129

Netcare 911: 082911

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Acute toxicity, Category 2	H300: Fatal if swallowed.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Skin corrosion/irritation, Category 2	H315: Causes skin irritation.
Serious eye damage/eye irritation, Category 1	H318: Causes serious eye damage.
Skin Sensitization, Skin, Category 1	H317: May cause an allergic skin reaction.
Acute toxicity, Category 2	H330: Fatal if inhaled.
Specific target organ toxicity, single exposure, Category 3	H336: May cause respiratory irritation.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity, repeated exposure, Category 1	H372: Causes damage to organs.
Hazardous to the aquatic environment	H400: Very toxic to aquatic life.
	H410: Very toxic to aquatic life with long lasting effects.

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

Label elements



Hazard pictograms:

Signal Word: **Danger**

Hazard Statements:

H300: Fatal if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

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H330: Fatal if inhaled.

H351: Suspected of causing cancer.

H372: Causes damage to organs.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P260 Do not breathe dust/fume/gas/mist/vapours/ spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a wellventilated area.

P273 Avoid release to the environment.

P280 Wear eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P302+P352 IF ON SKIN: Wash with plenty of water/...

P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER/ doctor/...

P314 Get medical advice/attention if you feel unwell.

P331 Do NOT induce vomiting.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to...

Special labelling of certain mixtures: None

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification EC 1272/2008	
Bifenthrin	CAS No. 82657-04-3	< 10	Acute Tox. 2	H300
			Skin Sens. 1B	H317
			Acute Tox.3	H331
			Carc. 2	H351
			STOT RE 1	H372
			Aquatic Acute 1	H400
			Aquatic Chronic 1	H410
Hydrocarbons, C10, aromatics, <1% naphthalene	EC No. 918-811-1	< 70	Asp. Tox. 1	H304
			STOT SE 3	H336
			Aquatic Chronic 2	H411
Mixture of : Polyoxyethylene alkyl phenol Calcium salt of alkyl aryl sulphonate	CAS No. -	< 30	Acute Tox. 4	H302
			Skin Irrit. 2	H315
			Eye Dam. 1	H318
			Aquatic Chronic 2	H411

For full text of H statements see section 16

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of accident or unwellness, seek medical advice immediately (show direction for use or data sheet if possible).

First aider: Pay attention to self-protection.

In case of inhalation:

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

In case of skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

In case of eye contact:

Immediately flush with plenty of water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

In case of ingestion:

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician

Self-protection of the first aider: use personal protective equipment as required

Most important symptoms and effects, both acute and delayed: None

Advice to physician:

There is no specific antidote. Treat symptomatically and supportively as and when required.

Indication of any immediate medical attention and special treatment needed:

Immediate medical attention is required if exposure to the product. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SMALL FIRE: See above.

LARGE FIRE: See above.

Unsuitable extinguishing media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards arising from the mixture:

No specific hazard known

Advice for fire-fighters:

Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eye or clothing. Use personal protective equipment as required. Evacuate personal to safe areas. Keep people away from and upwind of spill/ leak.

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For non-emergency personnel: Keep all personal away. Avoid contact with eyes and skin.

For emergency responders: Wear appropriate personal protective equipment. Avoid contact and ventilate area of the spill or leakage.

Protective equipment:

Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill.

Emergency procedures: Alert fire-fighting personnel, evacuate unprotected personal and animals

Environmental precautions:

Prevent entry into waterways, sewers, basement or confined areas. Do not flush into surface water or sanitary sewer systems. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains

Methods and materials for containment and cleaning up:

Material for containment and cleaning up:

Take up mechanically, placing in appropriate container for disposal

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information: None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

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

Protective measures: General occupational hygiene: when using do not eat, drink or smoke. Ash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended

Conditions for safe storage, including incompatibilities:

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

Incompatible substances:

None known

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None known

Biological exposure indices (BEI): None known.

Additional exposure limits under the conditions of use: None known.

Exposure control:

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Where there is possibility that an employee's eyes may be exposed to this substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use

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Respiratory protection:

Use only with adequate ventilation

Hand protection:

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

Eye/face protection:

tight sealing safety goggles when handling the product. Contact lenses are not protective eye devices.

Skin and body protection:

Suitable protective clothing. Apron, gloves made of plastic or rubber

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state :	Liquid
Appearance:	Not available.
Colour:	Not available.
Odour:	Not available.
pH (1% aqueous dilution):	Not available.
Melting point:	Not available.
Freezing Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not available.
Flammability:	Not available.
Upper/lower explosion limits:	Not available.
Vapour Pressure (mm Hg):	Not available.
Relative Vapour Density:	Not available.
Density:	Not available.
Solubility:	Not available.
N-octanol/water partition coefficient:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not explosive.
Oxidizing properties:	Not available.
Bulk density:	Not available.
Surface tension:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not available

Chemical stability:

The product is stable for two (2) years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50°C, preferably below 30°C, and not for prolonged periods in direct sunlight.

Possibility of hazardous reactions: None under normal processing

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Conditions to avoid: Heat, flames and sparks

Incompatible materials: No information available

Hazardous decomposition products: None under normal storage conditions

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity

Not classified

bifenthrin (ISO); (2-methylbiphenyl-3-yl)methyl rel-(1R,3R)-3-[(1Z)-2-chloro-3,3,3-trifluoroprop-1-en-1-yl]-2,2-dimethylcyclopropanecarboxylate (82657-04-3)

LD50 oral rat	54.5 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	1.01 mg/l/4h

Skin irritation/ corrosion (rabbits)

Not classified

Eye damage / irritation (rabbits)

Causes serious eye irritation.

Respiratory or skin sensitization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Specific Target Organ Toxicity STOT single exposure

Not classified

Specific Target Organ Toxicity STOT repeated exposure

Not classified

Aspiration hazard

Not classified

SECTION 12. ECOLOGICAL INFORMATION

Anticipated behaviour of the chemical product in the environment /possible environmental impact/ecotoxicity:

Ecology - water

: Very toxic to aquatic life with long lasting effects.

bifenthrin (ISO); (2-methylbiphenyl-3-yl)methyl rel-(1R,3R)-3-[(1Z)-2-chloro-3,3,3-trifluoroprop-1-en-1-yl]-2,2-dimethylcyclopropanecarboxylate (82657-04-3)

LC50 - Fish	0.00026 µg/l (96h, O. mykiss)
EC50 - Crustacea	0.00011 µg/l (48h, D. magna)
ErC50 - Algae	0.0822 mg/l (72 h, Scenedemus subspicatus)
NOEC - Chronic Fish	0.000012 mg/l (21 d, Oncorhynchus mykiss)

ENVIRONMENTAL EFFECTS:

Abiotic Degradation: No data available

Persistence and degradability: No data available

Bio-accumulative Potential: No data available

Mobility in soil: No data available

Biodegradation: No data available

Other adverse effects: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General Information: Do not discharge into drains, water courses or onto the ground. Discharge, treatment or disposal may be subject to national, state, or local laws. Empty containers may contain product residues. Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

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Disposal Methods: Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: 3082
Un proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(bifenthrin)
UN Classification transport hazard class(es): 9
Packing group (if applicable) III
Marine pollutant (Y/N) Yes, Considered a marine pollutant
Transport in bulk according to MARPOL 73/78, Annex II and the IBC Code: Not available

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 11014:2010 – Safety data sheet for chemical products, Content and order section

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned

Relevant classification and H statements (number and full text):

H300: Fatal if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H330: Fatal if inhaled.

H336: May cause respiratory irritation.

H351: Suspected of causing cancer.

H372: Causes damage to organs.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

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This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.

Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.