

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 Fipronil**

Additional information: Fipronil

Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide

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 oral	H302: Harmful if swallowed
Inhalation	H332: Harmful if inhaled
Skin irritation	H315: Causes skin irritation
Eye irritation	H320: Causes eye irritation
Hazardous to the Environment	H400 + 401 – 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.

The most important adverse human health effects: Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes eye irritation.

Label elements



Hazard pictograms:

Signal Word: Warning

Hazard Statements: H302: Harmful if swallowed. H332: Harmful if inhaled. H315 – Causes skin irritation. H320 – Causes eye irritation. H400 + 401 – Very toxic to aquatic life with long lasting effects

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Precautionary Statements: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P261 + P271 Avoid breathing dust/fume/gas/mist/vapours/spray, . Use only outdoors or in a well-ventilated area. P264 + P280 Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment.

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-No.		EC1272/2008
Fipronil	32.02	120068-37-3	Acute oral toxicity category 3 Acute dermal toxicity category 3 Acute inhalation category 3 STOT RE Category 1 Aquatic Acute Category 1 Aquatic Chronic Category1
Defoamer C	0.55		
Noigen EA – 100	5.47	9016-45-9	Acute oral toxicity category 4 Skin irritation category 2 Eye irritation category 2 Aquatic chronic category 2
Propylene glycol	5.47	57-55-6	
Water		7732-18-5	

For full text of H statements see section 16

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:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

In case of inhalation: Keep patient calm, remove to fresh air, seek medical attention

In case of skin contact: Immediately wash thoroughly with soap and water, seek medical attention.

In case of eye contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

In case of ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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Indication of any immediate medical attention and special treatment needed:

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

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Water spray, carbon dioxide, foam, dry powder

SMALL FIRE: See above.

LARGE FIRE: See above.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Specific hazards arising from the mixture:

carbon monoxide, Carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulfur oxides, organochloric compounds. The substances/groups of substances mentioned can be released in case of fire.

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 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.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Keep all personal away. Avoid contact with eyes and skin. Ventilate area of spill or leak, especially in contained areas.

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:

Do not discharge into the subsoil/soil. Do not discharge into drains/ surface waters/groundwater.

Methods and materials for containment and cleaning up:

Material for containment and cleaning up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product. Cleaning operations should be carried out only while wearing breathing apparatus. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Dispose of absorbed material in accordance with regulations.

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.

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SECTION 7. HANDLING AND STORAGE

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. Remove contaminated clothing and protective equipment before entering eating areas.

Protective against fire and explosion: No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Conditions for safe storage, including incompatibilities:

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 36 Months

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

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

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN14387 Type ABEK-P3)

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Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye/face protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Skin and body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Environmental exposure controls: Environmental manager must be informed of all major spillages.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	off white liquid.
Odour:	Odourless
pH (1% aqueous dilution):	approx. 4-6 (23 °C) (measured with the undiluted substance)
Melting point:	Not available.
Freezing Point:	-7 °C
Boiling Point:	approx. >100 °C (1.013 hPa) Information applies to the solvent
Flash Point:	>85 °C Not flammable.
Flammability:	Does not ignite
Upper/lower explosion limits:	Not determined
Ignition temperature:	410 °C
Vapour Pressure (mm Hg):	approx. 23 hPa (20 °C) Information applies to the solvent
Relative Vapour Density:	Not determined
Density:	approx. 1.03 g/cm ³ (20 °C)
Solubility:	Dispersible
N-octanol/water partition coefficient:	Not applicable
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity, dynamic:	81 mPa.s (23 °C)
Explosion hazard:	Not explosive
Fire promoting properties:	Not fire-propagating

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No hazardous reaction if stored and handled as prescribed/ indicated

Chemical stability: The product is stable if stored and handled as prescribed/ indicated

Possibility of hazardous reactions: No hazardous reaction if stored and handled as prescribed/indicated

Conditions to avoid: See Section 7 – Handling and storage

Incompatible materials: Strong bases, strong acids, strong oxidizing agents

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Fipronil tech CAS 120068-37-3	
Acute toxicity	
Acute Oral LD ₅₀ (rat)	92 mg/kg
Acute Dermal LD ₅₀ (rats):	>2000 mg/kg
Acute Dermal LD ₅₀ (rabbits):	354 mg/kg
Acute Inhalation LC ₅₀ - 4 h (rats)	0.39 mg/ℓ
Skin irritation/ corrosion (rabbits)	Causes skin irritation
Eye damage / irritation (rabbits)	Causes 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:

Fipronil tech CAS 120068-37-3	
Birds	
LD ₅₀ for bobwhite quail	11.3
LD ₅₀ for mallard ducks	>2000
LD ₅₀ for pheasants	31
LD ₅₀ for red-legged partridges	34
LD ₅₀ for house sparrow	1120
LD ₅₀ for pigeons	>2000
Dietary LC ₅₀ for(5d) bobwhite quail	49
Dietary LC ₅₀ for(5d) mallard ducks	>5000
Fish	
LC ₅₀ (96 h) for bluegill sunfish	85 µg/l
LC ₅₀ (96 h) for rainbow trout	248 µg/l
LC ₅₀ (96 h) European carp	430 µg/l
Daphnia	
LC ₅₀ (48 h)	0.19 mg/ℓ
<i>D. carinata</i> (48)	3.8 mg/ℓ
Algae	
EC ₅₀ (96) for <i>Scenedesmus subspictus</i>	0.068 mg/l
EC ₅₀ (120) <i>Selenastrum carpicornutum</i>	>0.16
<i>Anabaena flos-aquae</i>	>0.17
Bees	Highly toxic to honeybees, both by direct contact and by ingestion. However, no risk to bees when used as a soil seed treatment
Worms	Non-toxic

Bio-accumulative Potential: Not determined.

Mobility in soil: Not determined.

Other adverse effects: Not determined.

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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.

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. (contains FIPRONIL 19%)
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

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SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned

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

H302: Harmful if swallowed

H332: Harmful if inhaled

H315 – Causes skin irritation

H320 – Causes eye irritation

H400 + 401 – 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:

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.