

## Safety Data Sheet (SDS) BLIST-A-SIST 200 SC

 According to UN GHS 8th Ed  
 Revision Date: 25/06/2022

 First print date: 01/04/2021  
 Version: 1.1

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING**
**Product identifier:**
**Identification as on the label/Trade name:** BLIST-A-SIST 200SC

**Common name:** Fipronil 200 g/l SC

**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:**

 Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
 Lichtenburg, North West, South Africa, 2740

**Details of the Registration Holder:**

 Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
 Lichtenburg, North West, South Africa, 2740

**Contact Details:**

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

**Emergency telephone numbers:**
**24 Hour Emergency Number: Bateleur: +27 83 123 3911**

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

**SECTION 2. HAZARD IDENTIFICATION**
**Classification of the substances or mixture**
**The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]**

Hazard classes/Hazard categories	Hazard statement
Acute toxicity Oral (Category 4)	H302
Acute toxicity Inhalation (Category 4)	H332
Skin Sensitization (Category 1)	H317
STOT RE (Category 1)	H372
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

*For full text of H statements see section 16*
**The most important adverse effects**
**The most important adverse physicochemical effects:** None known

**The most important adverse human health effects:** Harmful if swallowed or inhaled. May cause damage to organs through prolonged exposure. May cause an allergic skin reaction.

**Label elements**


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**Hazard pictograms**
**Signal Word:** Danger

**Hazard Statements:**

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H372	Causes damage to organs through prolonged and repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

**Precautionary Statements:**

P260	Do not breathe dust/fumes/gas/mist/vapours/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.
P280	Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P302+P352	IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/ national/international

**SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**
**Substance/Mixture:** Mixture

**Ingredients:**

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Fipronil	120068-37-3	20%	Acute toxicity oral (Category 3) H301 Acute toxicity dermal (Category 3) H311 Acute toxicity inhalation (Category 3) H331 STOT RE (Category 1) H372 Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410
Ethylene glycol	107-21-1	<5%	Acute Toxicity oral (Category 4) H302
Kathon	5596-84-9	<1%	Skin irritation (Category 2) H315 Skin sensitisation (Category 1 ) H317 Eye damage (Category 1) H318 Aquatic Acute (Category 1) H400

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:**

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**In case of inhalation:** Remove source of contamination if safe to do so or remove to fresh air. The patient should be kept under observation. Seek medical attention immediately.

**In case of skin contact:** Remove contamination clothing, shoes and leather goods. Wash affected skin immediately with water and non-abrasive soap. Seek medical attention if symptoms persist.

**In case of eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Seek medical attention immediately.

**In case of ingestion:** Immediately transfer patient to nearest hospital or medical centre, warning by telephone of the estimated arrival time so that the start of treatment is not delayed. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband.

**Most important symptoms and effects, both acute and delayed:**

**Symptoms of exposure to the product :** Harmful if swallowed or inhaled. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically and supportively.

## SECTION 5. FIRE FIGHTING MEASURES

**Extinguisher media:**

**Suitable** extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

**Small Fire:** Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

**Large Fire:** Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

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

**Special hazards arising from the mixture:**

Fire Hazard: Not flammable.

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

**Advice for fire-fighters:**

Avoid inhaling hazardous fumes. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

## SECTION 6. ACCIDENTAL RELEASE

**Personal precautions, protective equipment, and emergency procedures:**

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

**For emergency responders:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

**Environmental precautions:**

Stop leak if without risk. Prevent entry into drains, watercourses, or confined areas; dike if needed. If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

Dispose in a safe manner in accordance with local/national regulations.

**Methods for containment and cleaning up:**

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**For small spills:** Provide adequate ventilation and clean up promptly. Do not use water to collect spilled product. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth. Do not flush spilled product into drains. If spill area is on ground near trees or other valuable plants, remove top 5 cm of soil after initial clean-up. Wear PPE. Collect in suitable containers, label the containers with the contents, and dispose of according to local regulations. Do not re-use spill material.

**For large spills :** Isolate area and keep unauthorized personnel away. Contain spilled material if possible. Clean up promptly. Do not use water to collect spilled product. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth. Do not flush spilled product into drains. Wear appropriate PPE. Collect in suitable containers, label the containers with the contents and dispose of according to local regulations. Do not re-use spill material. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected.

**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.

## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Harmful if swallowed. Avoid contact with skin, eyes, and clothing. Use with adequate ventilation. Water used to clean equipment must be disposed of correctly to avoid contamination. Do not handle broken containers without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly closed when not in use. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Protective measures:** Observe directions on label and instructions for use.

**Advice on general occupational hygiene:** Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Wash all clothing before it is re-used.

**Conditions for safe storage, including incompatibilities:**

Store in original containers. Store product in a segregated and approved area. Keep container in a cool, well-ventilated area at temperatures not exceeding 40 °C. Keep container tightly closed and sealed until ready for use. Keep under lock and key out of reach of unauthorized persons, children, and animals. Store away from incompatible substances.

**Specific end uses:**

Use as directed. Use original container.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:**

**Occupational exposure limits (OEL):** No information available.

**Biological exposure indices (BEI):** No information available.

**Additional exposure limits under the conditions of use:** No information available.

**Exposure control:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of

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workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

**Appropriate engineering controls: Engineering Controls:** Provide adequate ventilation. Ensure that control systems are properly designed and maintained. Only spark-resistant equipment should be used. Comply with occupational safety, environmental, fire and other applicable regulations. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Avoid contact with eyes. Wear a full-face shield when handling the product or spraying. The use of safety glasses with side shields (or goggles) are recommended if a face shield is not used.

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Body protection:** Appropriate impervious clothing is required to prevent skin contact with the product, apron, rubber boots.

**Respiratory protection:** Wear an organic cartridge respirator suitable for protection from mists/ vapours of pesticides if inhalation is likely to occur.

**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

**Emergency Eyewash:** Where there is any possibility that an employee's eyes may be exposed to this mixture; the employer should provide an eyewash fountain or appropriate alternative within the immediate work area for emergency use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Appearance	Liquid
Colour	Milky White
Odour	No data available
Odour threshold	No data available
pH	4-8
Melting point / freezing point (°C)	No data available
Boiling point (°C)	No data available
Flash point (°C)	No data available
Evaporation rate	No data available
Flammability	Non flammable
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	1.06
Water solubility (g/l) at 20°C	Dispersible
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

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**SECTION 10. STABILITY AND REACTIVITY**
**Reactivity:**

The product is stable under normal conditions.

**Chemical stability:**

Stable under normal storage conditions for 2 years.

**Possibility of hazardous reactions:**

No information available.

**Conditions to avoid:**

Avoid excessive heat and ignition sources.

**Incompatible materials:**

Should not be applied in combination with strong acidic, strong alkaline products and strong oxidizing agents.

**Hazardous decomposition products:**

Toxic thermal decomposition may include oxides of carbon, Sulphur and nitrogen and compounds of chlorine and fluorine.

**SECTION 11. TOXICOLOGICAL INFORMATION**
**Toxicokinetics, metabolism and distribution:** No data available

**Information on toxicological effects:**
**Assessment of acute toxicity:**

The product has not been tested. The data reported is for the main ingredients in the mixture.

<b>Fipronil CAS No. 120068-37-3</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat)	92 mg/kg
Acute Dermal LD50 (rat)	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	0.39 mg/l
Skin irritation/ corrosion	Not a skin irritant
Eye damage / irritation	Not an eye irritant
Respiratory or skin sensitization	Not a skin sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Ethylene Glycol CAS No. 107-21-1</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat)	7712 mg
Acute Dermal LD50 (mouse)	> 3500 mg/kg
Acute Inhalation LC50 - 6 h (rat)	> 2.5 mg/l
Skin irritation/ corrosion (rabbit)	Not a skin irritant
Eye damage / irritation	Not an eye irritant

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Respiratory or skin sensitisation	Not a sensitiser
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

<b>Kathon CAS No. 26172—55-4 + 2682-20-4</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat male)	3600 mg/kg
Acute Dermal LD50 (rat male)	3500 mg/kg
Acute Inhalation LC50 - 4h (rat)	No data available
Skin irritation/ corrosion (rabbit)	Causes skin irritation
Eye damage / irritation	Causes serious eye damage
Respiratory or skin sensitisation	Skin sensitiser.
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

**SECTION 12. ECOLOGICAL INFORMATION**

<b>Fipronil CAS No. 120068-37-3</b>	
<b>Toxicity</b>	
Birds Acute oral LD50	11.3 mg/kg Bobwhite quail ; >2000 mg/kg Mallard ducks; 31 mg/kg Pheasants; 34 mg/kg red-legged partridges; 1120 mg/kg house sparrows
Dietary LC50 (5 days )	49 mg/kg diet Bobwhite quail ; >5000mg/kg Mallard ducks
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr)	85 µg/l, Bluegill sunfish ; 248 µg/l Rainbow trout; 430 µg/l European carp
Aquatic Toxicity Daphnia LC <sub>50</sub> (48 hr)	0.19 mg/l ( <i>D. carinata</i> )
Toxicity to algae – static test EC <sub>50</sub> (72h)	0.12 mg/l ( <i>Selenastrum capricornutum</i> )
Toxicity to bees LD <sub>50</sub> (oral)	Highly toxic to bees by both direct contact and ingestion. No risk to bees when used as a soil or seed treatment.
Toxicity to bees LD <sub>50</sub> (contact)	
Worms LC <sub>50</sub>	383 mg/kg non toxic

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<b>Persistence and degradability</b>	Readily degraded; major degradants in soil (aerobic) are sulfone and amide, (anaerobic) are sulfide and amide. Photolysis of soil-applied fipronil gives the photodegradate together with sulfone and amide. Koc 427 (Speyer 2.2) to 1248 (sandy loam). Both fresh and aged column leaching studies (5 soils) indicate that fipronil and its metabolites present a low risk of downward movement in soil; this is supported by field dissipation studies. Following soil incorporated in-furrow granular applications, quantifiable residues were confined to the top 30 cm of soil, with no significant lateral movement or residues.
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

<b>Ethylene Glycol CAS No. 107-21-1</b>	
<b>Toxicity</b>	
Aquatic Toxicity Fish Static LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia LC <sub>50</sub> (48 hr) Toxicity to algae – static test EC <sub>50</sub> (72h) Toxicity to bacteria static test EC20 activated sludge (30 minutes) ISO 8192	>72860 mg/l Pimephales promelas ( <i>fathead minnow</i> ) >100 mg/l Daphnia magna (Water flea) >10000 mg/l - Scenedesmus quadricauda (Green algae) >1995 mg/l >84 µg/bee.
<b>Persistence and degradability</b> Biodegradability-aerobic 10 days	90-100 % - Readily biodegradable.
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

<b>Kathon CAS No. 26172—55-4 + 2682-20-4</b>	
<b>Toxicity</b>	
Aquatic Toxicity Fish Flow through test LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia LC <sub>50</sub> (48 hr) Toxicity to algae – static test EC <sub>50</sub> (72h)	0.19 mg/l Oncorhynchus mykiss (rainbow trout) 0.16 mg/l Daphnia magna (Water flea) 0.027 mg/l - Pseudokirchneriella subcapitata (green algae)
<b>Persistence and degradability</b> Biodegradability-aerobic 10 days	<50 % - not readily biodegradable.
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in Soil</b>	Potential for mobility in soil is very high (Koc between 0 and 50)
<b>Result of PBT and vPvB assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
<b>Other adverse effects</b>	No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Waste treatment methods:**
**Product:**

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Treat as hazardous



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waste and dispose of in accordance with local/ regional/ national/ international regulations.

**Container:**

Refer to container label for disposal information. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

## SECTION 14. TRANSPORT INFORMATION

UN Number	3082
UN proper shipping name	Environmentally Hazardous Substance; Liquid; N.O.S. (Fipronil 200g/l)
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

## 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 Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

**Relevant information regarding restrictions:**

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

**Other National regulations:**

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

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.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

**Chemical Safety Assessment carried out?** No

## SECTION 16. OTHER INFORMATION

**Indication of changes:**

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

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

Skin sensitizer (Category 1A): May cause an allergic skin reaction

STOT RE 1- Specific Target Organ Toxicity repeated exposure (Category 1): Causes damage to organs through prolonged and repeated exposure

Aquatic acute toxicity (Category 1): Very toxic to aquatic life

Aquatic chronic toxicity (Category 1): 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.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.