

## 1. Substance / preparation and company name

### Biopren BMS Duo HSE 8298

#### Use of the Substance/ Preparation

Insecticide

#### Company identification

Certis

1b Mills Way, Boscombe Down Business Park, Amesbury, Wiltshire. SP4 7RX

Telephone: 01980 676500 Fax: 01980 626555

Emergency contacts:

For advice on medical emergencies, fires, spillages or chemical hazards ONLY – phone 0870 190 6777.

For further advice for medical professionals - The National Poisons Information Service: Tel: 0870 600 6266 (UK only) or Dublin Tel: 00353 1379 964/379966.

For further advice for veterinary surgeons: 020 7635 9195

## 2. Composition / information on ingredients

Chemical name	Concentration (%)	CAS	EC- number	Symbol	R phrases
S- methoprene	0.5	65733-16-6	-	N	50
BHT	0.002	128-37-0	2048814	Xi	36/38
Sorbic acid	0.1	110-44-1	203-768-7	Xi	36/37/38

## 3. Possible hazards

Environmental hazard:	Might be dangerous to water invertebrates. The active ingredient is dangerous to some aquatic invertebrates, but quickly degrades in environment. In product it is present in small quantities.
Human health hazards:	None. Occupational exp. Limit: not established. Carcinogenicity: not listed by NTP, IARC or OSHA.

## 4. First aid measures

Primary route of entry:	Skin, inhalation.
Ingestion:	No known adverse effects. Seek medical attention.
Inhalation:	No known adverse effects. Remove person to fresh air.
Skin contact:	Not known to cause skin irritation. If irritation occurs, wash affected area with soap and water.
Eye contact:	May cause eye irritation. Immediately flush the eyes with large amounts of water for at least 15 minutes. If irritation persists seek medical attention.

## 5. Fire fighting measures

Suitable extinguishing media:	Water, carbon dioxide.
Special fire fighting procedures:	In case of fire handle as food. If possible contain the run-off, for proper disposal.

## 6. Accidental release measures

Personal precautions:	Do not inhale dust. Avoid contact with eyes and skin.
Protective equipment:	Protective gloves are recommended.

---

**Method of cleaning up:** Spillage – Sweep and transfer into waste containers for disposal. Clean the spill area with detergent and hot water. Contain the spill. Prevent from reaching surface waters or other water supplies.

---

## 7. Handling and storage

**Handling:** Store containers upright and closed. Store at room temperature in areas that are dry and well ventilated. Store away from heat, ignition sources and strong oxidisers.  
**Store away from odorous substances.** Do not contaminate water, feed or food by storage, handling and disposal. Read and follow all precautions and instructions on the product label.

---

## 8. Exposure controls / personal protection

**Eye protection:** Not necessary.  
**Protective clothing:** Avoid contact with clothes and skin.  
**Ventilation:** Mechanical ventilation may be used when handling this product in enclosed spaces.

**Respiratory protection:** Not necessary.  
**Other protective equipment:** Not necessary.

---

## 9. Physical and chemical properties

**Physical state:** Sticky solid powder; powder and granules.  
**Odour:** Characteristic.  
**Solubility:** Partially (sol. of honey).  
**Specific gravity:** 0.60 - 0.80 g/cm<sup>3</sup>.  
**Melting point:** Over 180°C with decomposition (carbonisation).  
**pH value:** 6.0 - 7.0 (dispersion in water).  
**Flash point (oC):** Not available.  
**Explosion properties:** Not flammable in settled-down state.  
**Oxidation properties:** None.  
**Further data:** Product contains over 99% of food ingredients.

---

## 10. Stability and reactivity

**Chemical stability:** Stable under usual application conditions.  
**Conditions to avoid:** Strong heating, sources of ignition, UV light.  
**Substances to avoid:** Oxidants e.g., oxygen, alkali hypochlorides, odorants e.g. perfumes, organic chemicals.  
**Hazardous decomposition:** Will not occur.  
**Hazardous reactions:** None known.

---

## 11. Toxicological information

**Toxicity data of bait:** Acute oral rat LD50 >5050 mg/kg b.w.  
Acute dermal rat LD50 >5050 mg/kg b.w.  
Acute inhalation rat LC50 >2.78 mg/l.

---

### Toxicity data of S-methoprene

<b>Active ingredient:</b>	Acute toxicity oral rat LD50 >5050 mg/kg b.w. Acute dermal rabbit LD50>5050 mg/kg b.w. Acute inhalation rat LC50>2.38 mg/l.
<b>Irritation:</b>	Skin: Slightly irritating. Eyes: Minimally irritating.
<b>Skin sensitisation:</b>	Not sensitiser.
<b>Additional information:</b>	On the basis of knowledge of the properties of the ingredients no harmful effects to health are to be expected when the product is used in accordance with instructions.

---

### 12. Ecological information

<b>Data of bait:</b>	Biodegradable (>99% food ingredients).
<b>Data of S-methoprene Active ingredient</b>	
<b>Ecotoxicity:</b>	Fish LC50 Zebra fish: 4.26mg/l (96-h). Daphnia /EC50 0.38 mg/l (48h).
<b>Persistence:</b>	Biodegradation: Biodegradable. Half-life: In field water: rapidly degraded 10 hours (at sunlight). In soil: rapidly degraded 10 days (surface treatment of 1 kg/ha).

---

### 13. Disposal considerations

<b>Disposal:</b>	Wastes resulting from this product may be disposed of on site (household waste) or at an approved waste disposal facility. Prevent contamination of environment by wastes. Do not contaminate water, food or feed.
<b>Disposal of packaging:</b>	Uncleaned packaging: Disposal in compliance with official regulations. If it is not contrary to official specification, packaging may be treated as household waste.

**RCA/CERCLA  
hazardous waste:** Not listed.

---

### 14. Transport information

**NON HAZARDOUS – not restricted**

---

## 15. Regulatory information

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP3

**Symbol and Labelling:** None.

**RISK PHRASES:** R52: Harmful to aquatic organisms.

**SAFETY PHRASES:** S2: Keep out of reach of children.  
S22: Do not breathe dust.  
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

**EINECS:** -

---

## 16. Other information

Text of R phrases mentioned in Section 2

This Safety Data Sheet is in accordance with the number 33/2004, XXV.2000 and 38/2003 of the definitions of the order in council of Hungary.

### R phrases

R52: Harmful to aquatic organisms.

### S phrases

S2: Keep out of reach of children.

S22: Do not breathe dust.

S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Source:** The Pesticide Manual  
Babolna Bioenvironmental Center Ltd: Registration Documentation  
WHO data sheet on pesticides No. 47

**DISCLAIMER OF LIABILITY.** The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

---