

**MATERIAL SAFETY DATA SHEET**

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Date: 02/08/06

**LUXAN BIOPREN BMS DUO**Supersedes:  
N/A**1. Identification of the product and the company**

Name : LUXAN BIOPREN BMS DUO  
Chemical description of active ingredient(s) : S-methoprene (IGR) 0.5%.  
Identification of the Product : Granule with IGR & bait in transparent plastic house.  
Company identification : Luxan (UK) Ltd  
Crown Business Park  
Old Dalby  
Leicestershire  
LE14 3NQ  
Tel: 0044 (0) 1664 820052  
Fax: 0044 (0) 1664 820216  
Email: enquiry@luxan.co.uk  
Use : Insecticide  
Emergency Contacts : Luxan UK Ltd Tel: 0044 (0) 1664 820052. Luxan BV Tel: 0031 4813 60811  
: National Poisons Information Service: 0870 600 6266 (UK only)  
: Dublin : 00353 1379 964/379966  
: Advice for veterinary surgeons : 020 7635 9195 (UK only)

**2. Information on ingredients**

Hazardous substances	%	CAS	EC-number	Hazard symbols	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. Hazard identification**

Environmental hazard: Might be dangerous to water invertebrates. The active ingredient is dangerous to some aquatic invertebrates, but quickly degrades in environment and 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  
Eyes: May cause eye irritation. Immediately flush the eyes with large amounts of water for at least 15 minutes. If irritation persists seek medical attention.  
Skin: Not known to cause skin irritation. If irritation occurs, wash affected area with soap and water.  
Inhalation: No known adverse effects. Remove person to fresh air.  
Ingestion: No known adverse effects. Seek medical attention.

**5. Fire-fighting measures**

Extinguishing media: Water, carbon dioxide.  
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  
Methods 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 (°C): Not available.  
Explosion properties: Not flammable in settled-down state.

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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 LD<sub>50</sub>>5050 mg/kg b.w.  
Acute dermal rat LD<sub>50</sub>>5050 mg/kg b.w.  
Acute inhalation rat LC<sub>50</sub>>2.78 mg/l  
Toxicity data of S-methoprene  
Active ingredient: Acute toxicity oral rat LD<sub>50</sub>>5050 mg/kg b.w.  
Acute dermal rabbit LD<sub>50</sub>>5050 mg/kg b.w.  
Acute inhalation rat LC<sub>50</sub>>2.38 mg/l  
Irritation: Skin: Slightly irritating. Eyes: Minimally irritating.  
Skin sensitisation: Not sensitiser.  
Additional information: 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**

Data of bait: Biodegradable (>99% food ingredients).  
Data of S-methoprene  
Active ingredient  
Ecotoxicity: Fish LC<sub>50</sub> Zebra fish: 4.26mg/l (96-h)  
Daphnia /EC<sub>50</sub> 0.38 mg/l (48h)  
Persistence: 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 consideration**

Disposal: 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.  
Disposal of packaging: 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**

Symbol and Labelling : None  
RISK PHRASES : R 52  
SAFETY PHRASES : S 2-22-61  
EINECS:

**16. Other information**

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

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