

COSHH Risk Assessment – Biopren 6 EC

1. Substance Information

Product Name: Biopren 6 EC – Bed Bug and Flea Killer Concentrate **Type:** Emulsifiable concentrate (EC) insecticide **Active Ingredients:**

- Hydrocarbons C10–C13, n-alkanes, isoalkanes, cyclic (<2% aromatics) – 50%
 - n-Octyl bicycloheptene dicarboximide (MGK 264) – 16%
 - Piperonyl butoxide – 10%
 - S-Methoprene – 7%
 - Natural Pyrethrins – 5%
- Supplier:** Bábolna Bioenvironmental Centre Ltd., Budapest, Hungary **Emergency Contact:** +36 (80) 201-199

2. Intended Use

Professional-use insecticide for the control of bed bugs, fleas, and other crawling insects in domestic and commercial premises. Used as a diluted spray applied to cracks, crevices, and harbourages using hand sprayer or compression sprayer. Restricted to trained and competent pest control technicians.

3. Hazard Identification

Classification (CLP):

- H304 – May be fatal if swallowed and enters airways
- H317 – May cause an allergic skin reaction
- H318 – Causes serious eye damage
- H410 – Very toxic to aquatic life with long lasting effects

Signal Word: *Danger* **Pictograms:** GHS07, GHS08, GHS09

4. Routes of Exposure

- Inhalation of vapour or aerosol during spraying
- Skin contact with concentrate or treated surfaces
- Eye contact from splashes or aerosol droplets
- Accidental ingestion from contaminated hands or food

5. Control Measures (BPCA / HSE Hierarchy)

Elimination/Substitution: No equally effective, safer alternative currently available. **Engineering Controls:**

- Apply in well-ventilated areas.
 - Use low-pressure sprayer to minimise misting.
 - Avoid application near unprotected electrical sources or ignition.
- Administrative Controls:**
- Exclude all occupants and pets during and after application (minimum 2 hours).
 - Display warning signage at entry points.
 - Record treatment, PPE used, and exclusion times in site log.

Personal Protective Equipment:

- Type 5/6 disposable coveralls
- Nitrile gloves (EN 374)
- Safety goggles or face shield (EN 166)
- Half-mask respirator with A2P3 filter (EN 14387)
- Waterproof footwear

6. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical advice if symptoms persist.
- **Skin Contact:** Wash immediately with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with clean water for at least 15 minutes. Seek medical attention.
- **Ingestion:** Do not induce vomiting. Rinse mouth. Obtain medical attention immediately.

Medical Advice: Symptoms may include coughing, dizziness, headache, or respiratory irritation. Observe for potential aspiration.

7. Spillage & Emergency Procedures

- Contain spillage with absorbent material (sand or earth).
- Prevent entry into drains, sewers, or watercourses.
- Collect residues into labelled hazardous-waste container for licensed disposal.
- For fires: use foam, dry powder, or CO₂ extinguisher – **do not use water jet.**

8. Storage and Handling

- Store in original, tightly closed container in a cool, well-ventilated area.
- Keep away from heat, flames, and ignition sources.
- Do not store near food, feed, or animal bedding.
- Maintain pest control chemical store log as per BPCA & HSE guidance.

9. Environmental Protection

Highly toxic to aquatic life. Avoid release into drains, watercourses, or soil. Collect washings and dispose of safely through licensed hazardous-waste routes. Comply with **The Control of Pesticides Regulations (COPR) 1986** and **Environmental Protection (Disposal of Hazardous Waste) Regulations 2021**.

10. Disposal

Triple-rinse empty containers; add rinsings to sprayer tank. Dispose of unused product and containers as hazardous waste (EWC 20 01 19*). Do not reuse or incinerate packaging.

11. Exposure Monitoring / Health Surveillance

- Observe HSE guidance (EH40) for potential skin or respiratory sensitisation.
- Record and retain COSHH assessments for at least 5 years.
- Monitor technicians for signs of dermal or respiratory sensitisation.

12. Assessment Review & Sign-Off

Technician: Andy Wood **Date:** October 2025 **Next Review Date:** October 2026