SAFETY DATA SHEET
(91/155-93/EGK/EEC)

PROTECT RODENTICIDE PELLET

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

Identification of the substance:
Type of preparation: ready-to-use bait for rodent control (rodenticide)
Product name: PROTECT rodenticide pellet

Producer and supplier:
Address: Bábolna Bioenvironmental Centre Ltd.
H-1107 Budapest, Szállás u. 6., HUNGARY
Tel.: (36-1) 43-20-400
Fax.: (36-1) 43-20-401
e-mail: info@babolna-bio.com

In case of emergency:
Tel: (36-1) 43-20-400
Fax: (36-1) 43-20-401

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition (type of active ingredients):
(anticoagulants) coumarin derivative: bromadiolone

Information on ingredients:

<table>
<thead>
<tr>
<th>Dangerous substances</th>
<th>w/w %</th>
<th>CAS no.</th>
<th>EINECS</th>
<th>Symbols</th>
<th>R phases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromadiolone</td>
<td>0.005</td>
<td>28772-56-7</td>
<td>249-205-9</td>
<td>T+, N</td>
<td>26/27/28-48/23/24/25-50/53</td>
</tr>
<tr>
<td>S Methoprene</td>
<td>0.001</td>
<td>65733-16-6</td>
<td>-</td>
<td>N</td>
<td>50</td>
</tr>
<tr>
<td>Bitrex</td>
<td>0.002</td>
<td>3734-33-6</td>
<td>223-095-2</td>
<td>Xn</td>
<td>20/22-52/53</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

To man: consumption of great amount might be harmful to health.
Slight acute toxicity.Repeated exposure of the product reduces the coagulation capacity of blood which can lead to internal haemorrhage. Hazard warning not required.

Occupational toxicity hazard: Slightly elevated

To environment: consumption of great amount might be harmful to warm-blooded animals. Keep out of reach of non-target animals.
4. FIRST AID MEASURES

Person feeling unwell should stop working and seek for medical advice.

**Poisoning symptoms:** bleeding from nose and gums

**In case of skin contact:** Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

**In case of eye contact:** Rinse eyes with clean water for several minutes.

**In case of ingestion:** Repeatedly administer medicinal charcoal in a large quantity of water.

**Note:** Never give anything by mouth to an unconscious person. Do not induce vomiting.

**Information for the physicians:** Basic aid, decontamination, administration of antidote, in serious cases blood transfusion. In case of accidental contamination thoroughly wash body with soap and water. Determination of blood clotting time (i.e. "Quick method"). To restore blood clotting time give vitamin K1. Exchange transfusion of whole blood (as last resort) after blood-letting. Check coagulation rate by the "Quick method'.'

**Antidote:** vitamin K1, **Parenterally:** 2 x 10 mg ampoules KONAKION ROCHE (i.v.) or **Orally:** Two 10 mg drinking ampoules KONAKION ROCHE (do not exceed 40 mg/day).

5. FIRE-FIGHTING MEASURES

Product is combustible.

**Extinguishing agents:** dry chemical powder, foam or sand (do not use direct jet of water)

During fire-fighting, wear suitable respiratory protective device (self contained breathing apparatus) and protective clothing, gloves and boots.

Contain the run-off, if possible, for proper disposal.

6. ACCIDENTAL RELEASE MEASURES

Use the personal protective equipment listed in Chapter 8. Do not empty into drains or waters. Take up spilled product with dust-binding material or suitable vacuum cleaner. Avoid formation of dust. Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles.

7. HANDLING AND STORAGE

**Handling:**
- do not eat, drink or smoke during work
- wash hands after handling the product.
Storage:
- in a cool and dry place. Protect from sun and humidity. For reason of quality assurance, keep dry at temperature under 25-30°C. Susceptible to odour. Keep separate from substances giving off smells.
- keep out of reach of children, unauthorised persons and animals,
- keep away from food, drink and animal feeding stuffs,
- keep away from heat, sources of ignition - No smoking,
- keep container tightly closed original containers in a well ventilated room.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Do not eat, drink or smoke while working. Work in a well ventilated area.

- Protective Equipment (if contact with the product is possible)
  Heavy-duty cotton or synthetic fabric working clothes (e.g. overalls).
  Heavy-duty shoes or boots. Gloves.

- During work: After contamination immediately wash skin with soap and water. Clean soiled clothing. After eye contact flush eyes with clean water for several minutes. Change contaminated clothing. If any indisposition occurs stop work and call a physician.

- After work: Wash thoroughly (shower, bath, wash hair). Change clothing. Thoroughly clean protective wear. Thoroughly clean contaminated equipment with soap or soda solution.

- Environment: Avoid contamination of surface water and drainage system.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>solid, granules</td>
</tr>
<tr>
<td>Odour</td>
<td>none</td>
</tr>
<tr>
<td>Colour</td>
<td>pink ( or blue) dyed</td>
</tr>
<tr>
<td>Bulk density</td>
<td></td>
</tr>
<tr>
<td>Particle size</td>
<td>Ø 5 mm x ~10 mm</td>
</tr>
<tr>
<td>Solubility</td>
<td>- in water: not soluble</td>
</tr>
<tr>
<td></td>
<td>- in other solvents: ND</td>
</tr>
<tr>
<td>Viscosity</td>
<td>NA</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>NA</td>
</tr>
<tr>
<td>Heat stability</td>
<td>becomes soft &gt;50°C</td>
</tr>
<tr>
<td>Flash-point</td>
<td>NA</td>
</tr>
<tr>
<td>Flammability</td>
<td>combustible</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>NA</td>
</tr>
<tr>
<td>Explosive limit</td>
<td>NA</td>
</tr>
<tr>
<td>Corrosiveness</td>
<td>non-corrosive</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability: spontaneous reaction not possible
Conditions or materials to avoid: -
Hazardous decomposition product:
In the event of fire, the formulation of CO₂ must be anticipated.

11. TOXICOLOGICAL INFORMATION

Acute Oral (rat) LD₅₀ > 2000 mg/kg (similar product)
Acute Dermal (rat) LD₅₀ > 2000 mg/kg (similar product)
Acute Inhalation (rat) LC₅₀ > 5 mg/l (1 h / 20 °C) (similar product)
Eye Irritation (rabbit) non-irritating (similar product)
Skin Irritation (rabbit) non-irritating (similar product)

Symptoms of poisoning: Haemorrhagic diathesis, haematuria, extended prothrombin time, abdominal pain, anaemia, shock.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Birds /quail/ acute oral LD₅₀: >2000 mg/kg (estimation)
Fish LC₅₀ (96h): >100 mg/l (estimation)
Daphnia EC₅₀ (48h): >100 mg/l (estimation)
Bees: not dangerous to bees when used as directed

Persistence:
- Degradation: biologically degradable
- Bioaccumulation: not likely to accumulate

13. DISPOSAL

Follow country specific regulations. Contact the local representative.

- **Product**
  Wear protective clothing according to paragraph 8. Package product wastes. Close and label receptacles and dispose of in an incinerator approved for chemicals, or in a site (landfill), an approved waste disposal facility.

- **Container**
  Dispose of damaged containers in an approved incinerator for chemicals or in a site (landfill), an approved waste disposal facility.

- **Other**
  If possible, collect poisoned dead rodents and dispose of together with product wastes and disposable rodent-feeding boxes in an incinerator approved for chemicals or at an approved waste disposal facility. By incineration at 1100°C.

14 TRANSPORT INFORMATION

Not specified as dangerous goods.
Keep dry. Keep separated from foodstuffs.
15. REGULATORY INFORMATION

- Classification: not required
- Symbol of danger: not required
- R-phrases: not required
- S-phases: not required.

The following are advised: 2-13-37-46 or 2-13-36/37-46 for professionals.

16. OTHER INFORMATION

This Safety Data Sheet is in accordance with the number 44/2000.(XII.26), XXV.2000 and 38/2003 of the definitions of the order in council of Hungary.

S phrases:
2  Keep out of reach of the children.
13  Keep away from food, drink and animal foodstuffs,
37  Wear gloves,
36/37 Wear suitable protective clothing and gloves (for professionals),
46  In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

R phrases:
20/22: Harmful by inhalation and in contact with skin.
26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
50/53: Very toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment.
50: Very toxic to aquatic organisms.
52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Source:
- TRC toxicity reports
- The Pesticide Manual
- Bábolna Bio TDS

No.: 2.

The information and recommendations given on this data sheet are based on our best present knowledge concerning the safety of the above product. This data sheet can not be regarded as a warranty of the specific technical parameters of the product. The user is fully responsible for following the relevant labour, environmental protection and other laws and regulations and for the proper handling of dangerous chemical substances.

Date of issue: 2006-09-12

János Szilágyi
Head of R & D Department