

MATERIAL SAFETY DATA SHEET

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Date: 01/07/07

Supersedes: 0205



VERMIGON PASTA BAIT

1. Identification of the product and the company

Name : VERMIGON PASTA BAIT HSE
Identification of the Product : Rodenticide bait.
Company identification : Certis UK
1b Mill Way, Boscombe Down Business Park, Amesbury, Wiltshire SP4 7RX
Tel: 0044 (0) 1980 676500. Fax: 0044 (0) 1980 626555
Email: certis@certiseurope.co.uk. Web: www.certiseurope.co.uk
Use : Rodenticide
Emergency Contacts : 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. Information on ingredients

Hazardous Substances	%	CAS	EINECS No.	Hazard Symbols	R-phrases
Bromadiolone	0.005	28772-56-7	249-205-9	T ⁺ , N	27/28-48-24/25-50/53
Denatonium Benzoate	0.002	3734-33-66	223-09-52	Xn	20
Attractive Substances	Up to 100				

3. Hazard identification

Classification : The product is classified as non-dangerous.
Human health hazards : Following ingestion of large amounts, the product can cause the inhibition of blood coagulation factors. The anticoagulant effect starts 12-18 hours after ingestion. Depending on the intoxication level, symptoms may be: gums bleeding, epistaxis, hypotension, tachycardia, haematuriae.
Environmental hazard : Available data show no particular risks.

4. First-aid measures

Inhalation : Not applicable.
Skin contact : Flush skin immediately and thoroughly with soap and water. If necessary, consult a physician
Eye contact : Flush immediately and thoroughly with water, consult a physician.
Ingestion : **Do not** induce vomiting to avoid risk of bleeding. **Administer activated vegetable carbon (25-100mg) and consult a physician. Antidote: vitamin K1 (15-25mg).**
Specific First Aid means to be available on workplace : Activated vegetable carbon.

5. Fire-fighting measures

Extinguishing agents : Water, carbon dioxide, or dust extinguisher.
Special exposure risks : Bromadiolone may release toxic fumes of hydrobromic acid.
Special protective devices : Suitable outfit.

6. Accidental Release Measures

Personal precautions : Avoid contact with eyes and skin. Prevent the access of children and domestic animals. **Do not** contaminate foodstuffs with the product.
Prevention of contact with skin and eyes : Wear suitable protective devices.
Environmental precautions : Prevent the product from reaching surface waters.
Methods of cleaning up : Collect the product with mechanical means, store it in tight containers and dispose of according to indications given in section 13.

7 Handling and storage

Handling requirements : Wear suitable gloves.
Storage conditions : Store in a cool and dry place, away from heat sources and direct sunlight.

8. Exposure controls/personal protection

8.1 Exposure threshold values:
TLV-TWA : Not envisaged.
TLV-STEL : Not envisaged.
Critical effects : Inhibition of blood coagulation factors.
Control procedures : Blood tests with determination of prothrombin and haemocrit time.
Professional exposure control
Respiratory protection : Not envisaged.
Hand protection : Gloves.
Eye protection : Avoid contact with eyes.
Skin protection : Not envisaged.
Environmental exposure control : Place baits out of the reach of domestic animals.
stop work and call a physician.
Environment : Avoid contamination of surface water and drainage system.

CERTIS EUROPE BV

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9. Physical and chemical properties

Appearance : Solid.
Viscosity : NA.
Colour : Red.
Odour : Fruit.
Vapour pressure : NA.
Melting point : NA.
Bulk volume : NA.
Flash-point : NA.
Solubility : Insoluble in water.
Flammability : Non flammable.
Ignition temperature : NA.
Explosive limit : NA.
Corrosiveness : Non-corrosive.

10. Stability and reactivity

Conditions to avoid : Avoid exposure to sunlight and heat.
Materials to avoid : Oxidisers, strong acids and alkalis.
Haz. decomp. Products : Not available.

11. Toxicological information

Health-hazardous effects
Target organs : Inhibition of blood coagulation factors.
Symptoms : See section 3.
Toxicity of the formulated product : LD₅₀ acute oral rat >22000 mg/kg (calculated).
Toxicity of active ingredients

	LD ₅₀ acute oral rat	LD ₅₀ acute dermal	Inhalation toxicity LC ₅₀ (4h)
Bromadiolone	1.125 mg/kg	1.71 mg/kg	0.43 µl

Contact with eyes and skin : Non irritating to eyes and skin.

Immediate, delayed and chronic effects resulting from short and long-term exposure:
Sensitisation : Available data show no specific hazards.
Carcinogenicity : Available data show no specific hazards.
Mutagenicity : Available data show no specific hazards.
Toxicity on reproduction : Available data show no specific hazards.

12. Ecological information

Ecotoxicity : Available data show no specific hazards.
Mobility : Bromadiolone is immobile in soil.
Persistence and degradability : Bromadiolone half-life in soil is approx. 14 days. The attractive substances are biodegradable.
Bioaccumulation potential :
Other adverse effects :

	Aquatic toxicity	Other toxicity	Bee toxicity
Bromadiolone	(96 h) 1.4 mg/l (rainbow trout)	Quail 1600 mg/kg, dog > 10mg/kg, cat 25 mg/kg	Non toxic

13. Disposal consideration

Handling of product in excess and of waste : see Sections 7 and 8.
Suitable disposal methods (product) : Dispose of as toxic waste.
Suitable disposal methods (empty containers) : Dispose of according to local and national regulations.

14. Transport information

Not regulated.

15. Regulatory information

Classification : None.
Hazard symbol : None.
R-phrases : None.
S-phrases : S2 Keep out of reach of children.
: S13 Keep away from food, drink and animal feeding stuffs.
: S37 Wear suitable gloves.
: S46 If swallowed, seek medical advice immediately and show this container or label.

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16. Other information

Other R phrase used in this Document

: R27/28 Very toxic by contact with skin and if swallowed
: R20 Harmful if inhaled
: R48/24/25 Toxic: danger of serious damage to health by prolonged exposure if in contact with skin and swallowed.
: R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Sources

: The Pesticide Manual.
: HSDB Hazardous Substances Data Bank.
: MSDS of raw materials.

The contents and format of this MSDS are in accordance with EC Commission Directive 93/112/EEC, 99/45/EC and 2001/58/EC.

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