



SAFETY DATA SHEET

Bromadiolone 0.25% Red

Page 1 of 3

Revision No. 1

Issue date: 31 January 2005

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name	Bromadiolone 0.25% Red
Company	PelGar International Ltd Unit 13, Newman Lane Industrial Estate, Newman Lane, Alton, Hampshire GU34 2QR
Telephone	Tel +44 (0) 1420 80744
Telefax	Fax +44 (0) 1420 80733
Product code	700

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Bromadiolone 0.25% CAS: 28772-56-7 EINECS: 249-205-9 T+;R27 T+;R28 T;R48/24 T;R48/25 N;R50/53
	Propylene glycol 70-80% CAS: 57-55-6

3. HAZARDS IDENTIFICATION

Most important hazards	Harmful in contact with skin and if swallowed. Also harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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4. FIRST AID MEASURES

Skin contact	Remove contaminated clothing Wash off immediately with soap and plenty of water. If irritation persists obtain medical attention Contaminated clothing should be washed and dried before re-use Harmful in contact with skin.
Eye contact	Rinse immediately with plenty of water and seek medical advice.
Inhalation	Move to fresh air. Obtain medical advice immediately.
Ingestion	Harmful if swallowed. Obtain medical advice immediately.
General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). ADVICE FOR DOCTORS: Bromadiolone is an indirect anticoagulant Phytomenadione, Vitamin K1, is antidotal. Determine prothrombin times not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalises.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Keep fire exposed containers cool by spraying with water if exposed to fire. Carbon dioxide (CO ₂) alcohol-resistant foam dry powder water spray mist or foam.
Extinguishing media which must not be used for safety reasons	Do not use water jets
Special protective equipment for firefighters	In the event of fire, wear a self-contained breathing apparatus, a chemical protection suit, suitable gloves and boots.

Bromadiolone 0.25% Red

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing, gloves and eye/face protection. See section 8.
Environmental precautions	Contain or absorb leaking liquid with earth or sand. Prevent liquid entering watercourses, sewers or basements. If substance has entered a watercourse or sewer or contaminated soil or vegetation, inform the appropriate authority.
Methods for cleaning up	Soak up with inert absorbent material. Transfer to a suitably labelled container. Subsequently, wash the contaminated area with water, taking care to prevent the washings entering sewers or drains.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking. Do not smoke eat or drink while handling this product. Always use good personal hygiene procedures when handling chemicals.
Storage	Keep in a cool, well-ventilated place. Keep out of the reach of children. Keep away from food and animal feedstuffs Keep away from oxidising agents Store in accordance with Health and Safety Executive's Guidance Note HSG71

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)	Propylene glycol TWA(ppm):150 TWA(mg/m3):470	Bromadiolone TWA(mg/m3): 0.002
Engineering measures	Ensure adequate ventilation, especially in confined areas.	
Occupational exposure controls	Keep away from food, drink and animal feeding stuffs. Wash hands and exposed skin before meals and after use. Always use good personal hygiene procedures when handling chemicals.	
Respiratory protection	Suitable approved respirator if exposed to spray mists	
Hand protection	Impervious gloves	
Eye protection	Tightly fitting safety goggles	
Skin and body protection	Impervious clothing, boots	

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid
Colour	Red
pH	8.5
Flash point	90°C
Relative density	~1.05
Water solubility	Completely miscible

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	Combustion or thermal decomposition will produce toxic and irritant fumes

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Harmful in contact with skin and if swallowed. ORL RAT LD50: 1.12mg/Kg Technical material. Calculated as approx 448mg for 0.25% liquid concentrate. DERMAL RABBIT LD50: 9.4 mg/Kg technical material. Calculated as approx 3,760mg/Kg for 0.25% liquid concentrate.
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mutagenic effects No evidence to suggest anticoagulant rodenticides are mutagenic

carcinogenic effects No evidence to suggest anticoagulant rodenticides are carcinogenic.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

General Information Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

Proper shipping name	COUMARIN DERIVATIVE PESTICIDE, LIQUID, TOXIC	UN-No	3026
Packing group	III	Class	6.1
Hazard ID	60		

IMO

UN-No	3026	Packing group	III
Class	6.1	Marine pollutant	NO
EmS	F-A S-A		

IATA-DGR

UN-No	3026	Packing group	III
Class	6.1	Sub-risks	-
packaging	618		

15. REGULATORY INFORMATION

Symbol(s): Xn - Harmful



R-phrase(s) R21/22 - Harmful in contact with skin and if swallowed.
R48/21/22 - Also harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) S28 - After contact with skin, wash immediately with plenty of soap and water
S36/37 - Wear suitable protective clothing and gloves.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60 - This material and its container must be disposed of as hazardous waste.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2 R27 - Very toxic in contact with skin.
R28 - Very toxic if swallowed.
R48/24 - Toxic: danger of serious damage to health by prolonged exposure in contact with skin.
R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Recommended restrictions Concentrate for producing ready for use anticoagulant rodenticides.

Sources of key data used to compile the datasheet CHIP 2002
EH40
Raw material suppliers Safety Data Sheets.

