



SAFETY DATA SHEET

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Difenacoum concentrate 2.5 % (Red). (Hydroxycoumarin anticoagulant rodenticide)

Revision No. 1

Issue date: 01 October 2003

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name	Difenacoum concentrate 2.5 % (red). (Hydroxycoumarin anticoagulant rodenticide)
Company	PelGar International Ltd Unit 13, Newman Lane Industrial Estate, Newman Lane, Alton, Hampshire GU 34 2QR Tel +44 (0) 1420 80744 Fax +44 (0) 1420 80733
Product code	TCF010

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Difenacoum 1-10% 56073-07-5 T+;R28 T;R48/25 N;R50/53 Triethanolamine 20-30% Xi;R36 Xi;R38 Propylene glycol 40-50% 57-55-6
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3. HAZARDS IDENTIFICATION

Main hazards	Toxic if swallowed. Irritating to eyes and skin. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
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4. FIRST AID MEASURES

Skin contact	Irritating to skin. 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
Eye contact	Irritating to eyes. Rinse immediately with plenty of water and seek medical advice.
Inhalation	Move to fresh air. Obtain medical advice immediately.
Ingestion	Toxic if swallowed. If swallowed, seek medical advice immediately and show this container or label.
General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). ADVICE FOR DOCTORS: Difenacoum 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. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

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

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Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus, suitable gloves and boots.

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 suitable 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. Wash hands and face before eating, drinking or smoking.

Storage Keep in a cool, well-ventilated place. Keep out of 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
Difenacoum 0.002mg/m3 (Long Term Exposure Limit)

Engineering measures to reduce exposure Ensure adequate ventilation, especially in confined areas.

Occupational Exposure Controls Keep away from food, drink and animal feeding stuffs. Always use good personal hygiene procedures when handling chemicals. Wash hands and exposed skin before meals and after use.

Respiratory protection Suitable respiratory equipment:

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

Odour Characteristic

Flash point ~103°C

Relative density ~1.105

Water solubility Completely miscible

10. STABILITY AND REACTIVITY

Stability Stable at 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

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avoid exothermic reactions.

Hazardous decomposition products

Combustion or thermal decomposition will produce toxic and irritant fumes

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Toxic if swallowed. ORL RAT LD50: 1.8mg/kg for technical difenacoum. Calculated as 72mg/kg for a 2.5% difenacoum concentrate. DERMAL RAT LD50: 28mg/kg technical difenacoum
Primary irritation	Irritating to eyes and skin.
Repeated or prolonged exposure	Harmful: danger of serious damage to health by prolonged exposure if swallowed
mutagenic effects	No evidence to suggest anticoagulant rodenticides are mutagenic
carcinogenic effects	No evidence to suggest anticoagulant rodenticides are carcinogenic.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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13. DISPOSAL CONSIDERATIONS

General Information	Classified as hazardous waste according to (national equivalent of EC-Dir. 91/689; disposal of toxic and hazardous waste).
Contaminated packaging	Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

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



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	packaging	618

15. REGULATORY INFORMATION

Symbol(s):	T;N;  
R -phrase(s)	R25 - Toxic if swallowed. R36/38 - Irritating to eyes and skin. R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S -phrase(s)	S36/37 - Wear suitable protective clothing and gloves. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61 - Avoid release to the environment. Refer to special instructions/safety data sheets. To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION

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Text of R phrases mentioned in Section 2

R28 - Very toxic if swallowed.
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.
R36 - Irritating to eyes.
R38 - Irritating to skin.

Recommended restrictions

Concentrate for producing ready for use anti coagulant rodenticides.
For use by professional operators only.

Sources of key data used to compile the datasheet

Raw material suppliers Safety Data Sheets.
CHIP 2002
EH40

Replaces:

Safety Data Sheet

Revision
No.:004/X01

Product Code
RBN250db