



SAFETY DATA SHEET

Page 1 of 3

Difenacoum concentrate 0.25% (Red). (Hydroxycoumarin anticoagulant rodenticide) (HSE No.:7452)

Revision No. 1

Issue date: 01 October 2003

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name	Difenacoum concentrate 0.25% (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	TCF024

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Difenacoum 0-0.5% 56073-07-5 T+;R28 T;R48/25 N;R50/53 Propylene glycol 70-80% 57-55-6
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3. HAZARDS IDENTIFICATION

Main hazards	Harmful 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
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. 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 (CO2) 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 self-contained breathing apparatus, suitable gloves and boots.

6. ACCIDENTAL RELEASE MEASURES

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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.
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/m ³):470 Difenacoum 0.002mg/m ³ (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	~1.05
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 avoid exothermic reactions.
Hazardous decomposition products	Combustion or thermal decomposition will produce toxic and irritant fumes

11. TOXICOLOGICAL INFORMATION

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Acute toxicity Harmful if swallowed. ORL RAT LD50: 1.8mg/kg for technical difenacoum.. Calculated as approx. 680 mg/kg of 0.25% Liquid Concentrate. DERMAL RAT LD50: 28mg/Kg technical difenacoum.

Primary irritation May cause eye/skin irritation.

Repeated or prolonged exposure Prolonged skin contact may cause skin irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

12. ECOLOGICAL INFORMATION

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

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 Not classified as dangerous for transport.

Proper shipping name

IMO

IATA-DGR

15. REGULATORY INFORMATION

Symbol(s): Xn;



R -phrase(s) R22 - Harmful if swallowed.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S -phrase(s) 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

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.

Recommended restrictions Concentrate for producing ready for use anti coagulent 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.: 4005-I-03 Product Code RBN025 R