

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

PIED PIPER HALT 25 WAX BLOCK RAT AND MOUSE BAIT (Brodifacoum 0.0025% w/w wax block bait) IE/BPA 70778

Version: 3

Revision date: 01/01/2020



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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: PIED PIPER HALT 25 WAX BLOCK RAT AND MOUSE BAIT
(Brodifacoum 0.0025% w/w grain bait)

1.2 Relevant identified uses of the mixture and uses advised against.

Rodenticide bait for rodent pest control.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **Pied Piper Chemicals Ltd.**
Address: Ballinure
City: Thurles
Province: Co. Tipperary
Telephone: 052 - 9156422
Fax: 052 - 9156613
E-mail: Pied.piper1@hotmail.com
Web: www.piedpiper.ie

1.4 Emergency telephone number: The National Poisons Information Centre, Beaumont Hospital, Dublin (01 – 8092166)

SECTION 2: HAZARDS IDENTIFICATION.

Anticoagulant product derived from coumarin that inhibits vitamin K metabolism and blocks prothrombin formation.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

STOT RE 2 : May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008: Pictograms:



Signal Word:

Warning

H statements:

H373 May cause damage to organs through prolonged or repeated exposure.

P statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container to ...

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EUH statements:

Restricted to professional users.

Contains:

Brodifacoum

Active substances: Sorbic

Acid, 0,1%;

2-bromo-2-nitropropane-1,3-diol,bronopol (INN), 0,05%; Brodifacoum,
0,0025%;

2.3 Other hazards.

The product may have the following additional risks:

May form explosible dust-air mixture if dispersed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
CAS No: 57-50-1 EC No: 200-334-9	[1] sucrose	2.5 - 10 %	-	-
CAS No: 102-71-6 EC No: 203-049-8 Registration No: 012119486482-31-XXXX	[1] 2,2',2''-nitrilotriethanol	0 - 2.5 %	-	-
Index No: 603-085-00-8 CAS No: 52-51-7 EC No: 200-143-0	2-bromo-2-nitropropane-1,3-diol,bronopol (INN)	0 - 1 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H302 - Aquatic Acute 1, H400 (M=10) - Eye Dam. 1, H318 - Skin Irrit. 2, H315 - STOT SE 3, H335	-
Index No: 607-172-00-1 CAS No: 56073-10-0 EC No: 259-980-5 Registration No: Reg, (EU) 2017/1381	Brodifacoum	0.002 - 0.003 %	Acute Tox. 1, H310 - Acute Tox. 1, H330 - Acute Tox. 1, H300 - Aquatic Acute 1, H400 (M=10) - Aquatic Chronic 1, H410 (M=10) - Repr. 1A, H360D - STOT RE 1,	Repr. 1A, H360D: C ≥ 0,003 % STOT RE 1, H372(sangre): C ≥ 0,02 % STOT RE 2, H373(sangre): 0,002 % ≤ C < 0,02 %

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			H372(sangre)	
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(*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed.

Long-term chronic exposure may result in injury to certain organs or tissues.
Substance is an anticoagulant and the risk is a potential internal haemorrhage.
Could be absorbed in contact with the skin and cause internal haemorrhage.
If swallowed serious risk of internal haemorrhage.
Other symptoms: pallor, abdominal or back pain.

4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care. As a rule, symptomatic treatment for compensating the observed effects.
Stomach-wash if haemorrhage symptoms are not observed.
In the event of haemorrhages, inject vitamin K1, control coagulation time, and if necessary give fresh blood transfer. Antidote: VITAMINA K1 (Phytomenadione).

SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

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Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

Formulated product for rodent pest control

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

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Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
sucrose	57-50-1	España [1]	Eight hours		10
			Short term		
2,2',2''-nitrioltriethanol	102-71-6	España [1]	Eight hours		5
			Short term		

[1] Según la lista de Valores Límite Ambientales de Exposición Profesional adoptados por el Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT) para el año 2017.

The product does NOT contain substances with Biological Limit Values. Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
2,2',2''-nitrioltriethanol CAS No: 102-71-6 EC No: 203-049-8	DNEL (Workers)	Inhalation, Long-term, Local effects	5 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	1,25 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	5 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	1,25 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	6,3 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	3,1 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	13 (mg/kg bw/day)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
2,2',2''-nitrioltriethanol CAS No: 102-71-6 EC No: 203-049-8	aqua (freshwater)	0,32 (mg/L)
	aqua (marine water)	0,032 (mg/L)
	aqua (intermittent releases)	5,12 (mg/L)
	PNEC STP	10 (mg/L)
	sediment (freshwater)	1,7 (mg/kg sediment dw)
	sediment (marine water)	0,17 (mg/kg sediment dw)
	soil	0,151 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

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9.1 Information on basic physical and chemical properties.

Appearance: Block bait Colour:

Blue

Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH: 7,2

Melting point: N.A./N.A.

Boiling Point: N.A./N.A. Flash

point: > 60 °C

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: N.A./N.A. Upper

Explosive Limit: N.A./N.A.

Vapour pressure: N.A./N.A.

Vapour density: N.A./N.A. Relative

density: 1,09 Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: 313°C Decomposition

temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: N.A./N.A.

Oxidizing properties: N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Dropping point: N.A./N.A.

Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Splatters in the eyes can cause irritation and reversible damage.

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Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
2,2',2''-nitrioltriethanol CAS No: 102-71-6 EC No: 203-049-8	Oral	LD50 Rat 6400 mg/kg bw [2]	5530 mg/kg bw [1]	LD50 Rat 6400 mg/kg bw [2]
	Dermal	LD50 Rabbit		> 22500 mg/kg bw [1]
	Inhalation			
Brodifacoum CAS No: 56073-10-0 EC No: 259-980-5	Oral	LD50 male mice		0.4 mg/ kg bw [1]
	Dermal	LD50 female rats 5.21 mg/kg bw [2]	3.16 mg/kg bw [1]	LD50 male rats 5.21 mg/kg bw [2]
	Inhalation	LC50 female rats 4.86 ug/l (4h) [2]	3.05 ug/l (4h) [1]	LC50 male rats 4.86 ug/l (4h) [2]

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Based on available data, the classification criteria are not met.

c) serious eye damage/irritation;

Based on available data, the classification criteria are not met.

d) respiratory or skin sensitisation; Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Based on available data, the classification criteria are not met.

h) STOT-single exposure;

Based on available data, the classification criteria are not met.

i) STOT-repeated exposure; Product classified:

Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.

j) aspiration hazard;

Not conclusive data for classification.

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SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
2,2',2''-nitrioltriethanol CAS No: 102-71-6 EC No: 203-049-8	Fish	LC50	Carassius auratus	>5000 mg/L (24 h) [1]
		LC50	Leuciscus idus	>10000 mg/l (48 h) [2]
		[1]	Experimental result, Study meets generally accepted scientific principles. however, exposure period only 24 h instead of 96 h according to recent guidelines (e.g. OECD 203).	
		[2]	Study meets generally accepted scientific principles. however, exposure period only 48 h instead of 96 h according to recent guidelines (e.g. OECD 203)	
Aquatic invertebrates	EC50	Artemia salina	5600 mg/L (24 h) [1]	EC50
		Daphnia magna	2038 mg/l (24 h) [2]	
	[1]	Brine shrimp bioassay and seawater BOD of petrochemicals. Price KS, Waggy GT and Conway RA, 1974.		
	[2]	Results of the harmful effects of water pollutants to Daphnia magna in the 21 day reproduction test. Kuehn R, Pattard M, Pernak KD and Winter A. 1989.		
Aquatic plants	EC0	Colpoda	Scenedesmus	160 mg/l [1]
	TTC	quadricauda		715 mg/l (8 d) [2]
	EC50	Scenedesmus subspicatus		750 mg/l (48 h) [3]
	[1]	Handbook of Environmental Data on Organic Chemicals, 2nd ed. Van Nostrand Reinhold Co., New York, USA: 518519.		
	[2]	Testing of substances for their toxicity threshold: Model organisms Microcystis (Diplocystis) aeruginosa and Scenedesmus quadricauda.		
	[3]	Results of the harmful effects of water pollutants to green algae (Scenedesmus subspicatus) in the cell multiplication inhibition test.		
Brodifacoum CAS No: 56073-10-0 EC No: 259-980-5	Fish	LC50	bluegill sunfish	0.165 mg/l (96h) [1]
			Rainbow trout	0.04 mg/l (96h) [2]
		[1]	The Pesticide Manual, 15th Edition	
	[2]	The Pesticide Manual, 15th Edition		
Aquatic invertebrates	LC50	Daphnia magna		>0.04 mg a.i./l (48h) [1]
				[1] The Pesticide Manual, 15th Edition
Aquatic plants	ErC50	Selenastum capricornutum		>0.04 mg/l (72h) [1]
				[1] The Pesticide Manual, 15th Edition

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

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No information is available on the degradability of the substances present. No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
sucrose CAS No: 57-50-1 EC No: 200-334-9	-2,7	-	-	Very low
2,2',2''-nitrioltriethanol CAS No: 102-71-6 EC No: 203-049-8	-1	-	-	Very low

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number.

Transportation is not dangerous.

14.2 UN proper shipping name. Description:

ADR: Transportation is not dangerous. IMDG:

 Transportation is not dangerous.

ICAO/IATA: Transportation is not dangerous.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

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Transportation is not dangerous.

14.6 Special precautions for user.

,Transportation is not dangerous.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

Information related to Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products:
Numbers/approval status/national authorization: En curso

Product Type	Group
Rodenticides	Pest control

Active substances	Concentration %
Sorbic Acid CAS No: 110-44-1 EC No: 203-768-7	0,1
2-bromo-2-nitropropane-1,3-diol,bronopol (INN) CAS No: 52-51-7 EC No: 200-143-0	0,05
Brodifacoum CAS No: 56073-10-0 EC No: 259-980-5	0,0025

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
30. Substances which appear in Part 3 of	1. Shall not be placed on the market, or used,

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<p>Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows:</p> <ul style="list-style-type: none">- Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5- Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6	<ul style="list-style-type: none">- as substances,- as constituents of other substances, or,- in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:<ul style="list-style-type: none">- either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,- the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008. <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>'Restricted to professional users'.</p> <p>2. By way of derogation, paragraph 1 shall not apply to:</p> <ul style="list-style-type: none">(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;(b) cosmetic products as defined by Directive 76/768/EEC;(c) the following fuels and oil products:<ul style="list-style-type: none">- motor fuels which are covered by Directive 98/70/EC,- mineral oil products intended for use as fuel in mobile or fixed combustion plants,- fuels sold in closed systems (e.g. liquid gas bottles);(d) artists' paints covered by Directive 1999/45/EC;(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.
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15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.
H372	Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.(sangre)
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 1 : Acute toxicity (Dermal), Category 1
Acute Tox. 1 : Acute toxicity (Inhalation), Category 1
Tox. 1 : Acute toxicity (Oral), Category 1
Acute Tox. 4 : Acute toxicity (Dermal), Category 4

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Acute Tox. 4 : Acute toxicity (Oral), Category 4

Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1

Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1

Eye Dam. 1 : Serious eye damage, Category 1

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(in accordance with Regulation (EU) 2015/830)

PIED PIPER HALT 25 WAX BLOCK RAT AND MOUSE BAIT (Brodifacoum 0.0025% w/w wax block bait) IE/BPA 70778

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Repr. 1A : Reproductive toxicant, Category 1A
Skin Irrit. 2 : Skin irritant, Category 2
STOT RE 1 : Specific target organ toxicity following a repeated exposure, Category 1
STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

Sections changed compared with the previous version:

1,2,3,4,11,12,15,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

BCF: Bioconcentration factor.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

EC50: Half maximal effective concentration.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water.

NOEC: No observed effect concentration.

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/> Regulation

(EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

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End of safety data sheet.-