BRIGAND RODENTICIDE BLOCK (APVMA Approval No - 68025)

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)
Issue date: 2/15/2023 Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form	:	Mixture
Product name	:	BRIGAND RODENTICIDE BLOCK (APVMA Approval No - 68025)
Type of product	:	Biocidal products (e.g. Disinfectants, pest control)
Product group	:	End product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture	:	Rodenticides
Recommended use	:	Ready to use Rodenticide containing 50ppm Brodifacoum.

1.4. Supplier's details

PelGar International (AUS) Pty Limited
Level 22 69 Ann Street
4000 Brisbane – QLD
Australia
T +61 73 112 1024

1.5. Emergency phone number

Emergency number	:	+61 73 112 1024

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin sensitisation, Category 1	H317	Calculation method
Hazardous to the aquatic environment – Acute Hazard, Category 3	H402	Calculation method

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



Signal word (GHS UN)	:	Warning
Hazardous ingredients	:	2-OCTYL-2H-ISOTHIAZOL-3-ONE
Hazard statements (GHS UN)	:	H317 - May cause an allergic skin reaction H402 - Harmful to aquatic life
Precautionary statements (GHS UN)	:	P261 - Avoid breathing dust. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves, protective clothing. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P317 - If skin irritation or rash occurs: Get medical help. P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
PROPYLENE GLYCOL	CAS-No.: 57-55-6	≥ 1 – < 5	Acute Tox. 5 (Dermal), H313
2-OCTYL-2H-ISOTHIAZOL-3-ONE	CAS-No.: 26530-20-1	< 1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
DIETHANOLAMINE	CAS-No.: 111-42-2	< 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
brodifacoum (ISO); 4-hydroxy-3-(3-(4′- bromo-4-biphenylyl)- 1,2,3,4-tetrahydro-1- naphthyl)coumarin (Active substance (Biocide))	CAS-No.: 56073-10-0	< 1	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation:dust,mist), H330 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : This product contains an anticoagulant substance. If ingested, symptoms, which may be delayed, may include nosebleed and bleeding gums. In severe cases, there may be bruising and blood present in the faeces or urine. Antidote: Vitamin K1 administered by medical/veterinary personnel only. . Seek medical attention immediately.

First-aid measures after inhalation : Inhalation unlikely. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. and then. Wash skin with soap and water.

First-aid measures after eye contact : Rinse eyes with eye-rinse liquid or water, keep eyes lids open at least 10 minutes.

First-aid measures after ingestion : Rinse mouth out with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Symptoms/effects after skin contact : May cause an allergic skin reaction.
Symptoms/effects after eye contact : May cause eye irritation.
Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Place under medical observation.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry chemical powder, Alcohol-resistant foam, Carbon dioxide (CO2). Water fog.
Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective actions for fire-fighters

Precautionary measures fire : Control run-off water by containing and keeping it out of sewers and watercourses.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Harmful to wildlife. Wild mammals and birds may be at greater risk if the product is not used in accordance to its label.

6.3. Methods and materials for containment and cleaning up

For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.
Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Wax may soften in excessive temperatures. It will not melt fully and will remain contained in bait station. Comply with the safety intructions.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in a well-ventilated place. Keep cool. Keep away from food and drink. Keep container tightly closed. Keep only in original container. Store locked up.
Storage area	:	Store away from heat. Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	:	Ensure good ventilation of the work station.
Environmental exposure controls	:	Avoid release to the environment. Do not exceed the occupational exposure limits (OEL).

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	:	Protective gloves
Eye protection	:	Safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Colour	:	Red.
Odour	:	Slight.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not applicable
Boiling point	:	Not available
Flammability	:	Non flammable.
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
pH	:	Not available
pH solution	:	Not available
Viscosity, kinematic (calculated value) (40 °C)	:	Not applicable
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20°C	:	Not applicable
Solubility	:	Not available
Particle size	:	Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive limits : Not applicable
Softening point : > 50 °C Wax becomes malleable @ 50°C and start to fuse together @ 70°C

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

brodifacoum (ISO); 4-hydroxy-3-(3-(4′- bromo-4-biphenylyl)- 1,2,3,4-tetrahydro-1- naphthyl)coumarin (56073-10-0)	
LD50 oral rat	< 5 mg/kg
LD50 dermal rat	7.48 mg/kg
LC50 Inhalation - Rat	3.05 µg/l

DIETHANOLAMINE (111-42-2)	
LC50 Inhalation - Rat	0.2 mg/l

PROPYLENE GLYCOL (57-55-6)	
LD50 oral rat	22000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 317042 mg/l/4h

2-OCTYL-2H-ISOTHIAZOL-3-ONE (26530-20-1)	
LD50 oral rat	550 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.76 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

brodifacoum (ISO); 4-hydroxy-3-(3-(4′- bromo-4-biphenylyl)- 1,2,3,4-tetrahydro-1- naphthyl)coumarin (56073-10-0)	
STOT-repeated exposure	Causes damage to organs (blood) through prolonged or repeated exposure (oral).

DIETHANOLAMINE (111-42-2)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

BRIGAND RODENTICIDE BLOCK (APVMA Approval No - 68025)	
Viscosity, kinematic	Not applicable

brodifacoum (ISO); 4-hydroxy-3-(3-(4′- bromo-4-biphenylyl)- 1,2,3,4-tetrahydro-1- naphthyl)coumarin (56073-10-0)	
Animal studies and expert judgment for classification	False

DIETHANOLAMINE (111-42-2)	
Animal studies and expert judgment for classification	False

PROPYLENE GLYCOL (57-55-6)	
Animal studies and expert judgment for classification	False

2-OCTYL-2H-ISOTHIAZOL-3-ONE (26530-20-1)	
Animal studies and expert judgment for classification	False

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute) : Harmful to aquatic life.
Classification procedure (Hazardous to the aquatic environment, short–term (acute)) : Calculation method
Hazardous to the aquatic environment, long–term (chronic) : Not classified

brodifacoum (ISO); 4-hydroxy-3-(3-(4′- bromo-4-biphenylyl)- 1,2,3,4-tetrahydro-1- naphthyl)coumarin (56073-10-0)	
LC50 - Fish [1]	0.042 mg/l
EC50 - Other aquatic organisms [1]	0.25 mg/l

DIETHANOLAMINE (111-42-2)	
LC50 - Fish [1]	1460 mg/l
EC50 - Crustacea [1]	55 mg/l
EC50 96h - Algae [1]	2.2 mg/l
NOEC chronic crustacea	0.78 mg/l

2-OCTYL-2H-ISOTHIAZOL-3-ONE (26530-20-1)	
LC50 - Fish [1]	0.18 mg/l
LC50 - Fish [2]	0.047 mg/l
EC50 - Crustacea [1]	0.32 mg/l
EC50 - Crustacea [2]	0.107 ppm

2-OCTYL-2H-ISOTHIAZOL-3-ONE (26530-20-1)	
ErC50 algae	0.084 mg/l
NOEC chronic fish	0.085 ppm
NOEC chronic crustacea	0.74 ppm

12.2. Persistence and degradability

BRIGAND RODENTICIDE BLOCK (APVMA Approval No - 68025)	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

BRIGAND RODENTICIDE BLOCK (APVMA Approval No - 68025)	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

BRIGAND RODENTICIDE BLOCK (APVMA Approval No - 68025)	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable

UN RTDG	IMDG	IATA
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

UN RTDG
No data available

IMDG
No data available

IATA
No data available

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Issue date : 2/15/2023

Full text of H-statements:	
H227	Combustible liquid
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H303	May be harmful if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H320	Causes eye irritation
H330	Fatal if inhaled
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

Full text of H-statements:	
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), UN

The information contained in this Safety Data Sheet is believed to be true and correct, as of the issue date. The accuracy and completeness of this information and any recommendations, or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use for this product.