

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 21/04/2022 Revision date: 21/04/2022 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Muskil Wheat Bait : End product Product group

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

1.2.1. Relevant identified uses

Main use category : Professional use

Use of the substance/mixture : Ready To Use Rodenticide (PT-14 Biocidal Product)

Use of the substance/mixture : Rodenticides

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Barrettine Environmental Health Ltd Ltd St Ivel Way Warmley United Kingdom- BS30 8TY Bristol United Kingdom T +44 (0) 1179 672222 - F +44 (0) 1179 614122

beh@barrettine.co.uk - www.barrettine.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0) 1179 672222 (Office hours only 8am - 5pm Mon- Thurs. 8 am - 4.30 pm Fri.)

+44 (0) 1270 502891 (Out of hours emergency number)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 1A H360D

Specific target organ toxicity - Repeated exposure, Category 2 H373

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: difenacoum (ISO); 3-(3- biphenyl-4-yl-1,2,3,4- tetrahydro-1-naphthyl)- 4-hydroxycoumarin Contains

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Hazard statements (CLP) : H360D - May damage the unborn child.

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

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P280 - Wear eye protection, protective clothing, protective gloves. P308+P313 - IF exposed or concerned: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

P405 - Store locked up.

P501 - Dispose of contents and container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

: Read the label before use. Using this product in a manner that is inconsistent with the label may be an offence. Refer to the CRRU UK Code of Best Practice (or equivalent) for

guidance.

When this product is supplied to a user for the control of rodents, it shall only be supplied to a professional user holding certification demonstrating compliance with UK rodenticide

stewardship regime requirements.

2.3. Other hazards

Extra phrases

Other hazards which do not result in classification

: 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.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
difenacoum (ISO); 3-(3- biphenyl-4-yl-1,2,3,4- tetrahydro-1-naphthyl)- 4-hydroxycoumarin	CAS-No.: 56073-07-5 EC-No.: 259-978-4 EC Index-No.: 607-157-00-X	< 0.1	Repr. 1B, H360D Acute Tox. 1 (Inhalation), H330 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Oral), H300 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
difenacoum (ISO); 3-(3- biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)- 4-hydroxycoumarin	CAS-No.: 56073-07-5 EC-No.: 259-978-4 EC Index-No.: 607-157-00-X	(0 <c 0.02)="" 2,="" <="" h373<br="" re="" stot="">(0.003 ≤C ≤ 100) Repr. 1B, H360D (0.02 ≤C ≤ 100) STOT RE 1, H372</c>

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Specific treatment (see supplemental first aid instruction on this label).

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. If necessary seek medical advice.

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First-aid measures after skin contact : Rinse and then wash skin thoroughly with water and soap. Remove contaminated clothing.

If necessary seek medical advice.

First-aid measures after eye contact : In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. If

necessary seek medical advice.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER or doctor.

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

Symptoms/effects : 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.

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

The primary treatment are the antidote therapy and the clinical assessment. Antidote: Vitamin K1 (phytomenadione). The effectiveness of the treatment should be monitored by measuring the clotting time. Do not interrupt the treatment until the clotting time is back to normality and is stable. 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. Consult a Poison Control Centre.

UK medical professionals should contact the National Poisons Information Service (www.npis.org) for further advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Dispose of fire debris and contaminated fire fighting water in accordance with official

regulations.

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 : Do not breathe dust.

Measures in case of dust release : Keep unprotected persons away.

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".

Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorised site.

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6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13: "Disposal considerations". See Section 7 for information on safe handling.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep

away from domestic and farm animals. Keep out of the reach of children.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the Hygiene measures

product.

7.2. Conditions for safe storage, including any incompatibilities

: Store in a well-ventilated place. Keep cool. Keep locked up and out of reach of children. Storage conditions

Keep away from domestic and farm animals.

: Keep away from food, drink and animal feeding stuffs. Information on mixed storage Storage area

: Protect from frost. Protect from humidity and water.

7.3. Specific end use(s)

Rodenticide. When this product is supplied to a user for the control of rodents, it shall only be supplied to a professional user holding certification demonstrating compliance with UK rodenticide stewardship regime requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Muskil Wheat Bait		
United Kingdom - Occupational Exposure Limits		
Local name Sucrose		
WEL TWA (OEL TWA) [1]	10 mg/m³	
WEL STEL (OEL STEL)	20 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

Exposure limit values for the other components

•	•	
MPG (propane-1,2-diol) (57-55-6)		
United Kingdom - Occupational Expos	ure Limits	
Local name	Propane-1,2-diol	
WEL TWA (OEL TWA) [1]	10 mg/m³ particulates 474 mg/m³ total vapour and particulates	
WEL TWA (OEL TWA) [2]	150 ppm total vapour and particulates	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
SUCROSE (57-50-1)		
United Kingdom - Occupational Expos	ure Limits	
Local name	Sucrose	
WEL TWA (OEL TWA) [1]	10 mg/m³	
WEL STEL (OEL STEL)	20 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

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2,6-Di-tert-butyl-p-cresol (128-37-0)		
United Kingdom - Occupational Exposure Limits		
Local name	2,6-Di-tert-butyl-p-cresol	
WEL TWA (OEL TWA) [1]	10 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
STARCH (9005-25-8)		
United Kingdom - Occupational Exposure Limits		
Local name	Starch	
WEL TWA (OEL TWA) [1]	4 mg/m³ respirable 10 mg/m³ total inhalable	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Protective clothing. Gloves. Wear chemically resistant gloves tested to EN374.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear chemically resistant gloves tested to EN374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : red.

Odour : characteristic.
Odour threshold : No data available
pH : No data available

pH solution : 6.61 (CIPAC MT 75.3 - 1% H2O)

Relative evaporation rate (butylacetate=1) : No data available : No data available Melting point Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : No data available : Non flammable. Flammability (solid, gas) : No data available Vapour pressure Relative vapour density at 20 °C : No data available

Relative density : 1.188

Solubility : Material insoluble in water.

Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : Not applicable

9.2. Other information

No additional information available

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

Keep only in the original container.

10.6. Hazardous decomposition products

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

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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

difenacoum (ISO);); 3-(3- biphenyl-4- <u>)</u>	/I-1,2,3,4- tetrahydro-1	1-naphthyl)- 4-hydroxycoumarin	(56073-07-5)
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LD50 oral rat

1.8 mg/kg Source: HSDB

LD50 dermal rat

50 mg/kg Source: HSDB

 LC50 Inhalation - Rat
 50 mg/kg

 Skin corrosion/irritation
 : Not classified

 Serious eye damage/irritation
 : Not classified

 Respiratory or skin sensitisation
 : Not classified

 Germ cell mutagenicity
 : Not classified

Reproductive toxicity : May damage the unborn child.

STOT-single exposure : Not classified

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

difenacoum (ISO); 3-(3- biphenyl-4-yl-1,2,3,4- tetrahydro-1-naphthyl)- 4-hydroxycoumarin (56073-07-5)

: Not classified

STOT-repeated exposure Causes damage to organs (blood) through prolonged or repeated exposure.

Aspiration hazard : Not classified

Muskil Wheat Bait

Carcinogenicity

Viscosity, kinematic Not applicable

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)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Not rapidly degradable

difenacoum (ISO); 3-(3- biphenyl-4-yl-1,2,3,4- tetrahydro-1-naphthyl)- 4-hydroxycoumarin (56073-07-5)

: Not classified

LC50 - Fish [1] 0.1 mg/l Source: HSDB

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

difenacoum (ISO); 3-(3- biphenyl-4-yl-1,2,3,4- tetrahydro-1-naphthyl)- 4-hydroxycoumarin (56073-07-5)

Partition coefficient n-octanol/water (Log Pow) 6.09 – 6.13 Source: HSDB

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Do not dispose of with domestic waste.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
lo supplementary informatio	n available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

United Kingdom

British National Regulations

: Authorisation Holder: ARROW REGULATORY LTD, 149-155 CANAL ST, NOTTINGHAM, NG1 7HR, UK. Authorisation No GB-2012-0661.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acre	onyms:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit

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Abbreviations and acronyms:		
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1	
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1	
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
H300	Fatal if swallowed.	
H310	Fatal in contact with skin.	
H330	Fatal if inhaled.	
H360D	May damage the unborn child.	
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.	
H410	Very toxic to aquatic life with long lasting effects.	
Repr. 1B	Reproductive toxicity, Category 1B	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.