

SAFETY DATA SHEET

RASCAL BRODIFACOUM WHOLE WHEAT BAIT

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name RASCAL BRODIFACOUM WHOLE WHEAT BAIT

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

Identified uses Ready for use Rodenticide containing 50ppm Brodifacoum.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier 1ENV SOLUTIONS LTD
Unit 4 Airbourne Industrial Estate
Arterial Road
Leigh on Sea
Essex
SS9 4EX
United Kingdom
01702 617057

1.4. Emergency telephone number

Emergency telephone 01702 617057

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Repr. 1A - H360D STOT RE 2 - H373

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H360D May damage the unborn child.
H373 May cause damage to organs (Blood) through prolonged or repeated exposure.

Precautionary statements P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust.
P280 Wear 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/ container in accordance with national regulations.

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Supplemental label information

EUH 208 Contains 1, 2- Benzisothiazolin-3-one. May produce an allergic reaction.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | |
|--|-----------------|
| 2,2'-Iminodiethanol CAS number: 111-42-2 EC number: 203-868-0 | <0.1% |
| Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373 | |
| 1,2-BENZISOTHIAZOLIN-3-ONE CAS number: 2634-33-5 EC number: 220-120-9 | 0.02% |
| Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411 | |
| BRODIFACOUM (EU) CAS number: 56073-10-0 EC number: 259-980-5 M factor (Acute) = 10 M factor (Chronic) = 10 | 0.005% |
| Classification Acute Tox. 1 - H300 Acute Tox. 1 - H310 Acute Tox. 1 - H330 Repr. 1A - H360D STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 | |
| Denatonium Benzoate CAS number: 3734-33-6 EC number: 223-095-2 | 0.001% |
| Classification Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412 | |

The full text for all hazard statements is displayed in Section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------------------|--|
| General information | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Advice for Medical Doctors: Brodifacoum is an indirect anti-coagulant. Phytomenadione, Vitamin K, is antidotal. Determin prothrombin time 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. |
| Inhalation | Unlikely to present an inhalation hazard unless excessive dust is present. Move to fresh air. Obtain medical advice immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist. |
| Ingestion | Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately. |
| Skin contact | May cause irritation to susceptible persons. Immediately take off all contaminated clothing. Wash immediately with plenty of soap and water and seek medical advice |
| Eye contact | May cause eye irritation to susceptible persons. Rinse immediately with plenty of water and seek medical advice. Rinse cautiously with water for several minutes. Get medical attention if irritation persists after washing. |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. |

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

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|----------------------------|--|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | Unlikely to present an inhalation hazard. If symptoms develop move the exposed person to fresh air. Immediately obtain medical advice. |
| Ingestion | Rinse mouth. Do NOT induce vomiting. Call a doctor immediately. |
| Skin contact | Prolonged contact may cause dryness of the skin. |
| Eye contact | No specific symptoms known. May be slightly irritating to eyes. |

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

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|-----------------------------|------------------------|
| Notes for the doctor | Treat symptomatically. |
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |

5.2. Special hazards arising from the substance or mixture

| | |
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| Specific hazards | None known. |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. |

5.3. Advice for firefighters

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| Protective actions during firefighting | Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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|-----------------------------|---|
| Personal precautions | Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. |
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6.2. Environmental precautions

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|----------------------------------|---|
| Environmental precautions | Avoid discharge into drains or watercourses or onto the ground. |
|----------------------------------|---|

6.3. Methods and material for containment and cleaning up

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|--------------------------------|---|
| Methods for cleaning up | Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13. |
|--------------------------------|---|

6.4. Reference to other sections

| | |
|------------------------------------|---|
| Reference to other sections | For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13. |
|------------------------------------|---|

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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|---|---|
| Usage precautions | Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Advice on general occupational hygiene | Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|---|
| Storage precautions | Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. |
| Storage class | Unspecified storage. |

7.3. Specific end use(s)

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|----------------------------|---|
| Specific end use(s) | The identified uses for this product are detailed in Section 1.2. |
| Usage description | Ready to use rodenticide containing 50 ppm Brodifacoum. |

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

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Propane-1,2-diol (Propane-1,2-diol Particulates) WEL 8-Hr limit mg/M3: 10
 Propane-1,2-diol (Propane-1,2-diol total vapour and particulates) WEL 8-Hr limit ppm: 150
 WEL 8Hr limit mg/M3: 474
 Whole Wheat Grain WEL 8-hr limit mg/m3: 10 (grain dust) WEL 15 min limit mg/m3: 30 (grain dust)

8.2. Exposure controls

| | |
|---|---|
| Appropriate engineering controls | Provide adequate ventilation. |
| Personal protection | Keep away from food stuffs. |
| Eye/face protection | No specific eye protection required during normal use. Avoid contact with eyes. |
| Hand protection | Suitable chemical resistant gloves are recommended for professional users. |
| Other skin and body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved. |
| Hygiene measures | Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. |
| Respiratory protection | No specific recommendations. Provide adequate ventilation. |
| Environmental exposure controls | Keep container tightly sealed when not in use. Avoid release to the environment. |

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------|
| Appearance | Whole wheat granules. |
| Colour | Red, Blue or Purple |
| Odour | Slight. |
| Odour threshold | No information available. |
| pH | No information available. |
| Melting point | Not relevant. |
| Initial boiling point and range | Not relevant. |
| Flash point | No information available. |
| Evaporation rate | Not relevant. |
| Evaporation factor | No information available. |
| Flammability (solid, gas) | combustible |
| Upper/lower flammability or explosive limits | No information available. |
| Other flammability | No information available. |
| Vapour pressure | Not relevant. |
| Vapour density | Not relevant. |
| Relative density | 1.27 |
| Bulk density | No information available. |
| Solubility(ies) | No information available. |

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| | |
|---|---------------------------------|
| Partition coefficient | Not relevant. |
| Auto-ignition temperature | No information available. |
| Decomposition Temperature | No information available. |
| Viscosity | Not relevant. |
| Explosive properties | Not considered to be explosive. |
| Explosive under the influence of a flame | Not considered to be explosive. |
| Oxidising properties | Not oxidising. |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) >2000 mg/kg

Acute toxicity - dermal

Notes (dermal LD₅₀) >2000 mg/kg

Acute toxicity - inhalation

Notes (inhalation LC₅₀) >5 mg/l (Dust)

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

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| | |
|--|---|
| Respiratory sensitisation | Based on available data the classification criteria are not met. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Based on available data the classification criteria are not met. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | Based on available data the classification criteria are not met. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | Based on available data the classification criteria are not met. |
| IARC carcinogenicity | None of the ingredients are listed or exempt. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
| Reproductive toxicity - development | May damage the unborn child. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure. |
| <u>Aspiration hazard</u> | |
| Aspiration hazard | Not relevant. Solid. |
| General information | Avoid contact during pregnancy/while nursing. May damage fertility. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | No specific symptoms known. |
| Ingestion | See section 4 - First Aid |
| Skin contact | Prolonged contact may cause dryness of the skin. |
| Eye contact | No specific symptoms known. |
| Route of exposure | Ingestion Inhalation Skin and/or eye contact |
| Toxicity of ingredients | Denatonium Benzoate Oral (Rat) LD50 = 584 mg/kg Brodifacoum Acute Oral ≤5mg/kg Acute Dermal ≤50mg/kg Acute Inhalation ≤0.05mg/kg (Commission Regulation 2016/1179) |

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

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

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not relevant.

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12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Other adverse effects Toxic to mammals, including domesticated animals and birds if ingested. Exposure of non-target animals should be prevented.

Toxicity of ingredients Brodifacoum Daphnia EC50/48Hr = 0.25 mg/l Rainbow trout LC50/96Hr = 0.042 mg/l

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information This material and its container must be disposed of in a safe way.

Disposal methods Dispose of in accordance with applicable regional, national, and local laws and regulations. Dispose of Contaminated packaging as unused product unless fully cleaned.

Waste class Waste disposal key number from EWC is 20 01 19 (Pesticides)

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

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EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
 Commission Regulation (EU) No 2015/830 of 28 May 2015.
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 IATA: International Air Transport Association.
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
 IMDG: International Maritime Dangerous Goods.
 CAS: Chemical Abstracts Service.
 ATE: Acute Toxicity Estimate.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 EC₅₀: 50% of maximal Effective Concentration.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Repr. = Reproductive toxicity
 STOT RE = Specific target organ toxicity-repeated exposure

Classification procedures according to Regulation (EC) 1272/2008

STOT RE 2 - H373: Commission Regulation (EU) 2016/1179 Repr. 1A - H360D: Commission Regulation (EU) 2016/1179

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Revision 9

Supersedes date 22/06/2017

SDS number 21332

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Hazard statements in full

H300 Fatal if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs (Blood) through prolonged or repeated exposure.
H373 May cause damage to organs (Blood) 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.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.