SAFETY DATA SHEET
RASCAL BROMADIOLONE WAX BLOCK BAIT

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

1.1. Product identifier
Product name RASCAL BROMADIOLONE WAX BLOCK BAIT

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Ready for use Rodenticide containing 50ppm Bromadiolone.
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. 1B - H360D STOT RE 1 - H372
Environmental hazards Not Classified

2.2. Label elements
Pictogram

Signal word Danger

Hazard statements H360D May damage the unborn child.
H372 Causes 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.
### RASCAL BROMADIOLONE WAX BLOCK BAIT

#### Supplemental label information

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

### 2.3. Other hazards

**SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Concentration</th>
<th>CAS number</th>
<th>EC number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl vanillin</td>
<td>&lt;0.1%</td>
<td>121-32-4</td>
<td>204-464-7</td>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>2,2’-Imino Diethanol</td>
<td>&lt;0.1%</td>
<td>111-42-2</td>
<td>203-868-0</td>
<td>Acute Tox. 4 - H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2 - H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1 - H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2 - H373</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3 - H412</td>
</tr>
<tr>
<td>1,2-BENZISOTHIAZOLIN-3-ONE</td>
<td>0.02%</td>
<td>2634-33-5</td>
<td>220-120-9</td>
<td>Skin Irrit. 2 - H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1 - H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1 - H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2 - H411</td>
</tr>
<tr>
<td>BROMADIOLONE (EU)</td>
<td>0.005%</td>
<td>28772-56-7</td>
<td>249-205-9</td>
<td>Acute Tox. 1 - H300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 1 - H310</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 1 - H330</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Repr. 1B - H360D</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT RE 1 - H372</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1 - H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1 - H410</td>
</tr>
</tbody>
</table>
RASCAL BROMADIOLONE WAX BLOCK BAIT

Denatonium Benzoate 0.001%
CAS number: 3734-33-6  EC number: 223-095-2

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.

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: Bromadiolone is an indirect anti-coagulant. Phytomenadione, Vitamin K, is antidotal. Determine 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
Due to the physical nature of this product, exposure by this route is unlikely. Seek medical attention if symptoms persist.

Ingestion
Rinse mouth. Do not induce vomiting. Get medical attention immediately.

Skin contact
May cause irritation to susceptible persons. If skin irritation occurs wash with soap and water. Remove contaminated clothing. Get medical attention if symptoms are severe or persist.

Eye contact
May cause eye irritation to susceptible persons. Rinse immediately with plenty of water and seek medical advice.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
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

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

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

Personal precautions
No specific recommendations. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions
Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Reuse or recycle products wherever possible. 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. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid contact with skin and eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Read label before use.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in a cool, dry location. Store only in the original receptacle. Keep containers tightly closed in a well-ventilated place. Take suitable precautions when opening sealed containers, as pressure can build up during storage. Keep away from sources of heat. Keep out of the reach of children. Store away from foodstuffs. Keep away from oxidizing agents.

Storage class
Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Usage description
Ready to use rodenticide containing 50 ppm Bromadiolone.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Substance</th>
<th>WEL 8-Hr limit mg/M³</th>
<th>WEL 8-Hr limit ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane-1,2-diol (Propane-1,2-diol Particulates)</td>
<td>10</td>
<td>150</td>
</tr>
<tr>
<td>Propane-1,2-diol (Propane-1,2-diol total vapour and particulates)</td>
<td>474</td>
<td></td>
</tr>
<tr>
<td>Sugar (Sucrose)</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>Paraffin Wax</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Paraffin Wax (Paraffin wax fume)</td>
<td>2</td>
<td>6</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
No specific ventilation requirements.
**RASCAL BROMADIOLONE WAX BLOCK BAIT**

**Personal protection**
Body protection must be chosen depending on activity and possible exposure, for example apron, protecting boots, chemical-protection suit.

**Eye/face protection**
No specific eye protection required during normal use.

**Hand protection**
Suitable chemical resistant gloves are recommended for professional users.

**Other skin and body protection**
Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing. Store work clothing separately.

**Hygiene measures**
Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

**Respiratory protection**
No specific recommendations. Provide adequate ventilation.

**Environmental exposure controls**
Not regarded as dangerous for the environment.

### SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Wax Block.</td>
</tr>
<tr>
<td>Colour</td>
<td>Red or Blue</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>approx. 60 Deg C (for the wax).</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>combustible</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information available.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Immiscible with water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not considered to be explosive.</td>
</tr>
</tbody>
</table>
RASCAL BROMADIOLONE WAX BLOCK BAIT

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
Keep away from: Oxidising agents.

10.4. Conditions to avoid
Conditions to avoid
Heat, sparks, flames.

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
Not irritating.

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

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

Respiratory sensitisation
Based on available data the classification criteria are not met.

Skin sensitisation
Based on available data the classification criteria are not met.

Germ cell mutagenicity
Based on available data the classification criteria are not met.

Genotoxicity - in vitro
Based on available data the classification criteria are not met.

Carcinogenicity
RASCAL BROMADIOLONE WAX BLOCK BAIT

Carcinogenicity

Based on available data the classification criteria are not met.

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

Reproductive toxicity - development

May damage the unborn child.

Specific target organ toxicity - single exposure

STOT - single exposure

Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

STOT RE 1 - H372 Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

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 Bromadiolone    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.

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.

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

Bromadiolone      Daphnia EC50/48Hr = 5.79 mg/l  Rainbow trout LC50/96Hr = 2.89 mg/l
RASCAL BROMADIOLONE WAX BLOCK BAITS

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 Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

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.

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.
RASCAL BROMADIOLONE WAX BLOCK BAIT

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.
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

Revision date 23/02/2018
Revision 5
Supersedes date 06/12/2017
SDS number 21335

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.
H319 Causes serious eye irritation.
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 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.