# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

<table>
<thead>
<tr>
<th><strong>Product</strong></th>
<th>Dead Fast Rat &amp; Mouse Killer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Usage</strong></td>
<td>Home and garden mouse and rat control</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Westland Horticulture Ltd</td>
</tr>
<tr>
<td></td>
<td>14 Granville Industrial Estate</td>
</tr>
<tr>
<td></td>
<td>Granville Road</td>
</tr>
<tr>
<td></td>
<td>Dungannon</td>
</tr>
<tr>
<td></td>
<td>County Tyrone</td>
</tr>
<tr>
<td></td>
<td>BT70 1NJ</td>
</tr>
<tr>
<td><strong>Email</strong></td>
<td><a href="mailto:customerservice@WestlandHorticulture.com">customerservice@WestlandHorticulture.com</a></td>
</tr>
<tr>
<td><strong>Emergency Tel</strong></td>
<td>01480 443789 (UK)</td>
</tr>
</tbody>
</table>

## 2. HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:**

Does not meet the criteria for classification

**Label Elements According to Regulation (EC) No 1272/2008:**

- **Hazard Pictograms**: None
- **Signal Word**: None
- **Hazard Statements**: None

**Precautionary Statements**

- **P102**: Keep out of the reach of children
- **P270**: Do not eat, drink or smoke when using the product
- **P301 + P310**: If swallowed, immediately call a poison centre or doctor/physician
- **P501**: Dispose of contents/container according to local regulations
3. COMPOSITION/INFORMATION ON INGREDIENTS

Description
A ready to use grain bait anticoagulant rodenticide containing 50mg/kg of Bromadiolone

Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Identifiers</th>
<th>Concentration %W/W</th>
<th>Warning Symbols</th>
<th>Regulation (EC) No 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromadiolone</td>
<td>CAS: 28772-56-7 EN: 249-205-9</td>
<td>0.005 %</td>
<td></td>
<td>Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation:dust, mist), H330 STOT RE 1, H372 Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

For the full text of the H Statements mentioned in this section, see section 16.

4. FIRST AID MEASURES

General Advice:
In all cases of suspected exposure, medical assistance should be sought immediately. Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment. See antidotal therapy below. Note that poisoning symptoms may develop over the course of several days

Inhalation:
The preparation is a non dusty bait. Inhalation is not likely. Inhalation is not applicable as route of exposure

Skin Contact:
Wash contaminated skin with plenty of soap and water
If skin irritation or other symptoms appear, avoid further exposure and get medical attention
Wash contaminated clothing before re-use

Eye Contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Remove contact lenses and continue flushing
Get medical attention if irritation/symptoms occurs

Ingestion:
Wash out mouth with water
If swallowed seek medical advice immediately
Do NOT induce vomiting unless directed to do so by medical personnel

Most Important symptoms and effects, both acute and delayed:
Nose bleed, gum bleed, spitting blood, multiple or large hematoma, generally sudden appearance of an unusual visceral pain
Blood in the urine, increase in coagulation time
Indication of any immediate medical attention and special treatment needed:
Primary treatment is antidotal therapy rather than clinical assessment. Antidotal therapy:
Specific vitamin K1 (phytomenadione). Analogues of vitamin K1 (vitamin K3: menadione for example) are not very active and should not be used. The efficacy of the treatment should be followed by measuring the coagulation time. The treatment should not be discontinued until coagulation time returns to normal and remains normal. In case of serious intoxication it may be necessary to administer, in addition to vitamin K1, blood or frozen fresh plasma or PPSB coagulant blood fraction transfusions.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Foam or dry chemical are preferred to prevent excessive run off.

Specific Hazards Arising From the Substance or Mixture:
The mixture is not known to produce hazardous products of combustion.
Normal products of organic combustion will be released on combustion.

Special Protective Equipment for Fire Fighters:
Wear full protective clothing and self-contained breathing apparatus.

Further Information:
Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
When dealing with spillage wear appropriate PPE (see section 8).
When dealing with spillage do not eat, drink or smoke.

Environmental Precautions:
Do not allow to get into water courses, drains or onto the ground.
If this product enters a water course or a sewer (including via contaminated soil and vegetation) in large quantities, contact local water authority and inform the Environmental Agency.

Methods and Materials for Containment and Cleaning Up:
Collect grains using vacuum cleaner or carefully sweep into closed container for recovery and disposal.
Clean contaminated area with water and detergent after removal.
Avoid the entry of washings into drains or waterways.

Additional Advice: If the product contaminates rivers and lakes or drains inform respective authorities.
7. HANDLING AND STORAGE

Handling:
- Read the label before handling and use
- Avoid contact with skin, eyes and clothing
- Wash hand thoroughly after handling
- When using do not eat, drink or smoke

Storage:
- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep out of reach of children
- Keep away from food, drink and animal feeding stuffs

Specific End Uses:
Use only as a rodenticide as recommended on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values

Exposure Controls

Engineering Measures: Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Where necessary, seek additional occupational hygiene advice.

Protective Measures: Although this product is not classified as dangerous, users should be made aware that the active substance may cause serious damage to health by prolonged exposure. The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory Protection: No special protective equipment required

Hand Protection: Wear disposable latex gloves or similar. Care should be taken when removing and disposing of gloves to avoid hand contact and contamination. Wash hands immediately after using this product.

Eye Protection: Eye protection is not necessary if used according to instructions

Skin and Body Protection: Protecting work clothing. Wash contaminated clothing before re-use

Environmental Exposure Controls: Steps should be taken to ensure that this product is not released accidentally into the environment in large quantities
### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Blue wheat grains  
**Odour:** Cereal odour  
**Other Information:** This product is not classified as flammable or explosive

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of storage, handling and use  
**Hazardous Reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
**Hazardous Decomposition:** Heating or fire can release organic products of combustion  
**Incompatible Materials:** None known  
**Conditions to Avoid:** None known

### 11. TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity:** LD50 Median lethal dose rat >5,000 mg/kg  
**Acute Inhalation Toxicity:** Not applicable  
**Acute Dermal Toxicity:** LD50 Median lethal dose rabbit >2,000 mg/kg  
**Skin Irritation:** Not irritant  
**Eye Irritation:** Not irritant  
**Respiratory or Skin Sensitization:** Not sensitizing  
**Long Term Toxicity:** Bromadiolone has not shown evidence of mutagenic, carcinogenic or reproductive toxicity effects  
**STOT- repeated exposure:** Lowest-observed-adverse-effect level – LOAEL Dog (90 days): 20 μg / Kg bw /day based on haemorrhagic changes seen at necropsy. The active substance is therefore classified as having danger of serious damage to health by prolonged exposure.
12. ECOLOGICAL INFORMATION

The product contains Bromadiolone which is very toxic to aquatic organisms. It may cause long term adverse effects in the aquatic environment.

Acute Toxicity

- **Toxicity To Fish:** Bromadiolone: LC50 Oncorhynchus mykiss (rainbow trout), >1.4 mg/l, 96h
  - LC50 Lepomis macrochirus 3 mg/l, 96h

- **Toxicity to Aquatic Plants:** Bromadiolone: EC50 Selastrum Subspicatus (algae) 0.17mg/l, 72h

- **Toxicity To Aquatic Invertebrates:** Bromadiolone: EC50 Daphnia magna (water flea), 2mg/l 48h

- **Terrestrial toxicity:** Bromadiolone: Eisenia foetida (earworm), LC50 >9.48 mg/kg soil, 14 days

- **Toxicity to Birds:** Bromadiolone:
  - Colinus virginianus (bob white): Acute oral LD50 NOEC 50mg/kg bw, LD/50 138 mg/kg bw. Shot term dietary NOEC <10mg/kg food, LD/C50 62mg/kg food
  - Anas platyrhynchos (Mallard): Acute oral LD50 NOEC <500mg/kg bw, LD/50 1293 mg/kg bw. Shot term dietary NOEC <19mg/kg food, LD/C50 110mg/kg food

Persistence and Degradability

The substance is not considered to be biodegradable under environmentally relevant conditions or during sewage treatment processes. Hydrolisis is not expected to be significant in the environment. In aqueous solution, it is rapidly and extensively photolysed with a DT50 value of 12.8 minutes. Bromadiolone is not considered volatile and it is not expected to volatilize to air in significant quantities.

- **Stability in Soil:** Bromadiolone: The substance is reasonably strongly absorbed to soil and slowly degraded in soil with a DT50 > 154 days in aerobic conditions.

- **Mobility in Soil:** Bromadiolone is not likely to move through the soil and unlikely to reach ground water in significant quantities.

**Bioaccumulative Potential:** The Log POW is greater than 3 which indicate there is a potential to bio-accumulate

**Results of PBT and vPvB Assessment:** Bromadiolone: PBT potential
13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with preparation or used container. Do not contaminate food. Do not dispose of waste into sewer. If recycling is not practicable, dispose of in compliance with local regulations. Waste product should be stored in designated areas and destroyed by incineration. Where possible, recycling is preferred to disposal or incineration. Care should be taken to ensure that disposal methods do not expose the preparation to non-target wild or domestic animals or pets.

Contaminated Packaging: Empty remaining contents. Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations. Do not reuse empty containers.

14. TRANSPORT INFORMATION

Land Transport (ADR /RID) Not dangerous goods
Maritime Transport (IMDG) Not dangerous goods
Air Transport (IATA-DGR) Not dangerous goods
Special precautions for user: None

15. REGULATORY INFORMATION

Registration Numbers: UK-2015-0938

Safety, health and environmental regulations/legislation specific for the substance of mixture:

This mixture is classified and labelled according to the CLP Regulation (EC) No 1272/2008

Contains: Bromadiolone

Chemical Safety Assessment: Not available
16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

Full texts of abbreviated H Statements referred to under Section 3:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H300</td>
<td>Fatal if swallowed</td>
</tr>
<tr>
<td>H310</td>
<td>Fatal in contact with skin</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damages to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

Full text of Classifications

CLP/GHS: Acute Tox 1; Acute Toxicity, Category 1

Aquatic Chr 1; Aquatic Chronic Toxicity, Category 1

STOT RE 1, Specific Target Organ Toxicity (Repeated Exposure), Category 1

Abbreviations and Acronyms

ADR | International Carriage of Dangerous Goods by Road |
CAS No | Chemicals Abstract Service Registry Number |
EC No | European Community Number for chemicals within EU regulations |
IATA-DGR | Dangerous Goods Regulations by the International Air Transport Association |
IMDG Code | International Maritime Dangerous Goods Code |
PBT | Persistent, Bioaccumulative and Toxic Properties |
Regulation (EC) No 1272/2008 | Classification, Labelling and Packaging (CLP) |
RID | International Transport of Dangerous Goods by Rail |
vPvB | Very Persistent and Very Bioaccumulative Properties |

Further information

Before using this product, ensure that you read and understand its label

MSDS information:
This Safety Data Sheet is prepared in compliance with Regulation 1272/2008 and Annex I of the REACH regulation 453/2010.

This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Westland Horticulture Limited does not accept responsibility for damage caused by incorrect use of this information.

Training and related advice:
This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.