



# CONTRAC RODENTICIDE

## SAFETY DATA SHEET

ACCORDING TO REGULATION EC:  
Regulation (EC) No. 1907/2006 (as  
amended)

DATE OF ISSUE:  
August 2013

PREPARED BY:  
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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier:

**CONTRAC RODENTICIDE**

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

#### 1.2.1 Relevant identified uses

**USE:** Anticoagulant Rodenticide - Ready to use

**FORM:** Formulated dry bait

#### 1.2.2 Uses advised against

Use only for the purpose detailed in Section 1.2.1

### 1.3. Details of the supplier of the safety data sheet

#### MANUFACTURER:

Bell Laboratories, Inc.  
3699 Kinsman Blvd. Madison, WI 53704, USA  
t: +1 608 241 0202  
e: [registration@belllabs.com](mailto:registration@belllabs.com)

#### IMPORTER:

Bell Laboratories, Inc.  
Chaucer House, Chaucer Rd.  
Sudbury, Suffolk  
CO10 1LN, UK  
t: +44 1787 379 295  
e: [emea@belllabs.com](mailto:emea@belllabs.com)

### 1.4. Emergency telephone number

**+1-952-852-4636 – USA - Available 24h**

English language phone service

or Local or Regional Poison Control Centre:

#### National Emergency Telephone Numbers

Austria	+431 406 43 43
Belgium	070/245.245 24h
Bulgaria	+359 2 9154 409
Czech Republic	+420 224 919 293, +420 224 915 402
Denmark	82 12 12 12
Estonia	16662, abroad (+372) 626 93 90 Mon09:00–Sat 09:00
Finland	(09) 471 977 (direct) or (09) 4711 (exchange) 24h
France	+ 33 (0)1 45 42 59 59 24h
Germany	Varies by region. Check for local number.
Hungary	+36 80 20 11 99 24h
Ireland	01 809 2166 0800h – 2200h 7 days a week
Lithuania	+370 5 236 20 52 or +370 687 53378
Malta	2545 6504
Netherlands	+31 30 274 88 88
Norway	22 59 13 00
Portugal	808 250 143
Romania	021.318.36.06 (direct) 08:00-15:00
Slovakia	+421 2 5477 4166 24h
Spain	915 620 420 24h
Sweden	112 24h or 08-331231 Mon-Fri 09:00-17:00
UK	0844 892 0111

## 2. HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified

2.1.2 Classification according to Directive 1999/45/EC: Not classified

### 2.2 Label Elements

Labelling according to Directive 1999/45/EC	Not required (not classified) Warning symbol: None Hazard statements (R-phrases): R 51/53 (S-phrases) : S2, S13, S28, S46
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### 2.3. Other Hazards

Contains the anticoagulant Bromadiolone which may cause bleeding if ingested. Harmful if swallowed or absorbed through the skin. No significant adverse effects expected under normal use conditions.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

No Substances fulfill the criteria set forth in Annex II Section A of the REACH regulation (EC) No 1907-2006

### 3.2. Mixtures

#### Description of the mixture:

Formulated dry rodenticide bait containing Bromadiolone

Chemical name* (IUPAC)	% By weight*	CAS No.	EC No.	Classification**	
Bromadiolone [3-[3-(4'-Bromo-[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2H-1-benzopyran-2-one]	0.005 %	28772-56-7	249-205-9	<b>Regulation 1272/2008</b>	Acute tox. 1; H300, H310, H330 Repr. 1A; H360D STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
				<b>Directive 67/548/EEC</b>	T <sup>+</sup> ; R26/27/28 R48/23/24/25 Repr. Cat. 1; R61 N; R50/53

\*Unlisted components are not listed are non-hazardous

\*\*Proposed classifications according to Regulation 1272/2008 and Directive 67/548/EEC are not yet finalized, details provided are as per the classification proposal submitted to ECHA in August 2010.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

**Ingestion:** Call physician or emergency number immediately. Do not give anything by mouth or induce vomiting unless instructed by physician.

**Inhalation:** Not applicable.

**Eye contact:** Flush with cool water for at least 15 minutes. If irritation develops, obtain medical assistance.

**Skin contact:** Wash with soap and water. If irritation develops, obtain medical assistance.

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

Ingestion of excessive quantities may cause nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding.

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

**Advice to physician:** If ingested, administer Vitamin K<sub>1</sub> intramuscularly or orally as indicated for bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

**Antidote:** Phytomenadione, Vitamin K<sub>1</sub> is antidotal

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

**5.2. Special hazards arising from the mixture:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide and traces of bromine and hydrogen bromide.

**5.3. Advice for firefighters:** Wear protective clothing and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

<p><b>6.1. Personal precautions, protective equipment and emergency procedures</b></p> <p>6.1.1 For non-emergency personnel: Gloves should be worn when handling the bait. Collect spillage without creating dust.</p> <p>6.1.2 For emergency responders: Gloves should be worn when handling the bait. Collect spillage without creating dust.</p>
<p><b>6.2. Environmental precautions</b></p> <p>Do not allow bait to enter drains or water courses. Where there is contamination of streams, rivers or lakes contact the appropriate environment agency.</p>
<p><b>6.3. Methods and materials for containment and cleaning up</b></p> <p>6.3.1 For Containment: Sweep up spilled material immediately. Place in properly labeled container for disposal or re-use.</p> <p>6.3.2 For Cleaning Up: Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.</p> <p>6.3.3 Other Information: Not Applicable</p>
<p><b>6.4. Reference to other sections</b></p> <p>Refer to Sections 7, 8 &amp; 13 for further details of personal precautions, personal protective equipment and disposal considerations.</p>

## 7. HANDLING AND STORAGE

<p><b>7.1. Precautions for safe handling</b></p> <p>7.1.1 Protective Measures: Keep product in the original container. Do not handle the product near food, animal foodstuffs or drinking water. Keep out of reach of children. Do not use near heat sources, open flame, or hot surfaces.</p> <p>7.1.2 Advice on general occupational hygiene: Do not eat, drink or smoke whilst handling. Wash thoroughly with soap and water after handling.</p>
<p><b>7.2. Conditions for safe storage, including any incompatibilities</b></p> <p>Store only in original container in a cool, dry place, inaccessible to pets and wildlife. <b>KEEP OUT OF REACH OF CHILDREN.</b> Keep container tightly closed when not in use.</p>
<p><b>7.3. Specific end uses(s)</b></p> <p>Rodenticide.</p>

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<p><b>8.1. Control Parameters</b></p> <p>Occupational exposure limits: Not established</p>
<p><b>8.2. Exposure Controls</b></p> <p>8.2.1 Appropriate engineering controls: Not required</p> <p>8.2.2 Personal Protection</p> <p>Respiratory protection: Not required</p> <p>Eye protection: Not required</p> <p>Skin protection: Wear rubber gloves (for example, EN 374)</p> <p>Hygiene recommendations: Wash thoroughly with soap and water after handling.</p> <p>8.2.3 Environmental exposure controls: Prevent the substance from entering drains and water-courses.</p>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1. Information on basic physical and chemical properties</b>	
<b>Appearance/Colour:</b>	Blue solid pelleted bait
<b>Odour:</b>	Sweet grain-like
<b>Odour Threshold:</b>	Not applicable, odour not associated with a hazardous material.
<b>pH:</b>	Not applicable, CONTRAC RODENTICIDE is not dispersible with water.
<b>Melting point:</b>	Not applicable to rodenticide bait (melting point for technical Bromadiolone: 192.6 to 193.9°C).
<b>Boiling point:</b>	Not applicable to rodenticide bait (for Bromadiolone: predicted boiling point: 705.9°C (MPBPWIN v1.43, Adapted Stein and Brown Method)).
<b>Flash point:</b>	Not applicable, CONTRAC RODENTICIDE does not contain components classified as flammable.
<b>Evaporation rate:</b>	Not applicable, CONTRAC RODENTICIDE is a solid.
<b>Upper/lower flammability or explosive limits:</b>	Not applicable, CONTRAC RODENTICIDE does not contain components classified as flammable or explosive.
<b>Vapour Pressure:</b>	Not applicable to rodenticide bait (for Bromadiolone: $1.7 \times 10^{-17}$ Pa (MPBPWIN v1.43, Modified Grain Method)).
<b>Relative Density:</b>	0.768 g/ml
<b>Solubility (water):</b>	Not water soluble (for Bromadiolone: pH 5: 0.000 g/L at 20 to 24°C, pH 7: 0.016 g/L at 20 to 24°C, pH 9: 0.403 g/L at 20 to 24°C,).
<b>Solubility (solvents):</b>	Not applicable to rodenticide bait (for Bromadiolone: Methanol: 8.70 g/L at 20 to 24°C, Acetone: 19.3 g/L at 20 to 24°C, Ethyl acetate: 4.95 g/L at 20 to 24°C, Dichloroethane: 1.78 g/L at 20 to 24°C).

<b>Partition coefficient: n-octanol/water:</b>	Not applicable to rodenticide bait (for Bromadiolone: 4.64 at 22°C (pH not reported)).
<b>Auto-ignition temperature:</b>	Not applicable, CONTRAC RODENTICIDE does not contain components classified as flammable.
<b>Decomposition temperature:</b>	Not applicable to rodenticide bait or Bromadiolone (MPBPWIN v 1.42 predicted boiling point for Bromadiolone is 705.9°C (adapted Stein and Brown method), is in excess of the EC A.2 maximum testing temperature of 360 °C).
<b>Viscosity:</b>	Not applicable, CONTRAC RODENTICIDE is not a liquid.
<b>Explosive properties:</b>	Not applicable, CONTRAC RODENTICIDE does not contain components classified as explosive.
<b>Oxidising properties:</b>	Not applicable, CONTRAC RODENTICIDE does not contain oxidizing agents.

**9.2. Other Information:** None known

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable when stored in original container in a cool, dry location.

### 10.2. Chemical stability

Stable when stored in original container in a cool, dry location.

### 10.3. Possibility of hazardous reactions

Please refer to 10.6. (Hazardous decomposition products).

### 10.4. Conditions to avoid

Avoid extreme temperatures (below 0°C or above 40°C).

### 10.5. Incompatible materials

Avoid strongly alkaline materials.

### 10.6. Hazardous decomposition products

High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide and traces of bromine and hydrogen bromide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### 11.1.1 Substances

Not applicable

#### 11.1.2 Mixtures

##### 11.1.2.1 (a) Acute Toxicity

LD50, oral (ingestion): >5000 mg/kg (rats) (Bromadiolone Rat LD50 oral: 0.525 mg/kg bw).

LD50, dermal (skin contact): > 5001 mg/kg (rats) (Bromadiolone Rat LD50 dermal: 2.034 mg/kg bw).

LC50, inhalation: CONTRAC RODENTICIDE is a solid pelleted bait and therefore exposure by inhalation is not relevant.

##### 11.1.2.1 (b) Skin corrosion/irritation

Not irritating to skin.

##### 11.1.2.1 (c) Serious eye damage/Irritation

Not irritating to eyes.

##### 11.1.2.1 (d) Respiratory or skin sensitisation

Dermal sensitization: Not a Sensitizer (Guinea pig maximisation test).

##### 11.1.2.1 (e) Germ cell mutagenicity

CONTRAC RODENTICIDE contains no components known to have a mutagenetic effect.

##### 11.1.2.1 (f) Carcinogenicity

CONTRAC RODENTICIDE contains no components known to have a carcinogenetic effect.

##### 11.1.2.1 (g) Reproductive Toxicity

CONTRAC RODENTICIDE: No data

##### 11.1.2.1 (h) STOT-Single Exposure

CONTRAC RODENTICIDE: No data

##### 11.1.2.1 (i) STOT Repeated Exposure

CONTRAC RODENTICIDE: No data

##### 11.1.2.1 (j) Aspiration Hazard

Not applicable. CONTRAC RODENTICIDE is a solid pelleted bait.

## 12. ECOLOGICAL INFORMATION

**GENERAL INFORMATION:** Bromadiolone is classified as very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten bait. Use a bait station to minimize these risks. Please note, the data below reflects the active ingredient Bromadiolone. Contrac Rodenticide is formulated @0.005% or 50ppm Bromadiolone. Ecological effects would be significantly lower for Contrac Rodenticide.

#### 12.1. Toxicity

For Bromadiolone:

Fish: 96h LC50 (*Pimephales promelas*) = 4.33 mg/L

Invertebrates: 48h EC50 (*Daphnia magna*) = 0.222 mg/L

Algae: 72h EbC50 *Selenastrum capricornutum* = >7.31 mg/L, 72h NOErC in *Selenastrum capricornutum* = 4.15 mg a.i./L

Microorganisms (activated sludge): EC50 >100 mg/L (30 min, respiration inhibition)

#### 12.2. Persistence and degradability

For Bromadiolone: Not readily biodegradable under normal conditions. However, photolysis of Bromadiolone is rapid with a half-life 0.5 hours or less (pH7 and 9, 25°C). In addition Bromadiolone is not volatile and therefore would not be expected to be present in the air in significant quantities.

#### 12.3. Bioaccumulative potential

For Bromadiolone: Log Pow is >3, which indicates a potential to bioaccumulate

BCF: For Bromadiolone, estimated for freshwater fish = 1750 (QSAR by Vieth et al (1979))

#### 12.4. Mobility in Soil

K<sub>OC</sub>: 1223 to 36011 mL/g (advanced adsorption test).

Mobility of Bromadiolone in soil is considered to be limited.

#### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be PBT or vPvB.

#### 12.6. Other adverse effects

None.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste Treatment Methods

13.1.1 Product/packaging disposal

Wastes resulting from use may be disposed of on-site or at an approved waste disposal facility. Dispose of all wastes in accordance with all local, regional and national regulations.

13.1.2 Waste treatment-relevant information

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

13.1.3 Sewage disposal-relevant information

Not applicable

13.1.4 Other disposal recommendations

None

## 14. TRANSPORT INFORMATION

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

ADR/RID (Road/Rail)

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group – not applicable

#### 14.5. Environmental hazards

ADR/RID (Road/Rail)

Not considered hazardous by ADR/RID Regulations for transportation via road/rail.

IMDG (Maritime)

Not considered hazardous by IMO Regulations for transportation via vessel.

IATA (Air)

Not considered hazardous by IATA Regulations for transportation via air.

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable

## 15. REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:** Contrac Rodenticide is regulated under Directive 98/8/EC.

**15.2. Chemical safety assessment:** Exempt, CONTRAC RODENTICIDE is regulated under Directive 98/8/EC.

## 16. OTHER INFORMATION

### CLASSIFICATION AND PROCEDURES USED IN PREPARATION OF THIS SDS:

#### 16.1. Indication of changes

This is version 2 of the Safety Data Sheet for CONTRAC RODENTICIDE. Updates to version 1 were made to comply with the 'Safety Data Sheet' Regulation (EU) No 453/2010.

#### 16.2. Abbreviations and acronyms

Not applicable

#### 16.3. Key literature references and sources of data

Assessment Report (Inclusion of active substances in Annex I to Directive 98/8/EC, 30 May 2008, revised 16 December 2010).  
Bell Laboratories proprietary data.

#### 16.4. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] and Directive 1999/45/EC

<b>Classification according to Regulation (EC) No. 1272/2008</b>	Not classified on the basis of available test data.
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<b>Classification according to Directive 1999/45/EC</b>	Not classified on the basis of available test data.
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#### 16.5. Relevant S and R-phrases

CONTRAC RODENTICIDE: Not applicable (not classified).

R51/53 – Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

S2: Keep out of reach of children

S13: Keep away from food, drink, and animal feeding stuffs.

S28: After contact with skin, wash immediately with plenty of soap.

S46: If swallowed, seek medical advice immediately and show this container or label

#### 16.6. Further Information:

This Safety Data Sheet has been compiled in accordance with Regulation (EC) No 1907/2006 (as amended by Regulation (EU) No 453/2010), Regulation (EC) 1272/2008 and Directive 1999/45/EC.

For additional information, please contact the manufacturer noted in Section 1.

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