CONTRAC BLOX

SAFETY DATA SHEET	ACCORDING TO REGULATION EC: Regulation (EC) No. 1907/2006 *(as amended)*	DATE OF ISSUE: March 23, 2015	PREPARED BY: TH

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. **Product Identifier:**
CONTRAC BLOX

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

IMPORTER:
Bell Laboratories, Inc.
Chaucer House, Chaucer Rd.
Sudbury, Suffolk
CO10 1LN, UK
t: +44 1787 379 295
e: 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

Ireland	+353 01 809 2166 0800h – 2200h 7 days a week
UK	+ 44 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]: STOT RE2, H373

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

2.2 Label Elements

Labelling according to Regulation EC 1272/2008	Hazard Pictograms: GHS08  **Signal Word: WARNINGc** **Hazard Statements** H373: May cause damage to organs through prolonged or repeated exposure **Precautionary Statements** P102: Keep out of reach of children P103: Read label before use P314: Get medical advice / attention if you feel unwell P501: Dispose of contents / container in accordance with national regulations

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	**Regulation 1272/2008**	Acute tox. 1; H300, H310, H330 Repr. 1A; H360D STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
				Directive 67/548/EEC	T^+; 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_1 intramuscularly or orally as indicated for bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

Antidote: Phytomenadione, Vitamin K_1 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

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1 For non-emergency personnel: Gloves should be worn when handling the bait. Collect spillage without creating dust.
6.1.2 For emergency responders: Gloves should be worn when handling the bait. Collect spillage without creating dust.

6.2. Environmental precautions
Do not allow bait to enter drains or water courses where there is potential for contamination of streams, rivers or lakes. If contamination occurs, please contact the appropriate environment agency.

6.3. Methods and materials for containment and cleaning up
6.3.1 For Containment: Sweep up spilled material immediately. Place in properly labeled container for disposal or re-use.
6.3.2 For Cleaning Up: Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.
6.3.3 Other Information: Not Applicable

6.4. Reference to other sections
Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
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.
7.1.2 Advice on general occupational hygiene: Do not eat, drink or smoke whilst handling. Wash thoroughly with soap and water after handling.

7.2. Conditions for safe storage, including any incompatibilities
Store only in original container in a cool, dry place, inaccessible to pets and wildlife. KEEP OUT OF REACH OF CHILDREN. Keep container tightly closed when not in use.

7.3. Specific end uses(s)
Rodenticide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters
Occupational exposure limits: Not established

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance/Colour:	Blue solid wax blocks
Odour:	Sweet grain-like
Odour Threshold:	Not applicable, odour not associated with a hazardous material.
pH:	Not applicable, CONTRAC BLOX is not dispersible with water.

Melting point:	Not applicable to rodenticide bait (melting point for technical Bromadiolone: 192.6 to 193.9°C).
Boiling point:	Not applicable to rodenticide bait **(**for Bromadiolone: predicted boiling point: 705.9ºC (MPBPWIN v1.43, Adapted Stein and Brown Method)).
Flash point:	Not applicable, CONTRAC BLOX does not contain components classified as flammable.
Evaporation rate:	Not applicable, CONTRAC BLOX is a solid.
Upper/lower flammability or explosive limits:	Not applicable, CONTRAC BLOX does not contain components classified as flammable or explosive.
Vapour Pressure:	Not applicable to rodenticide bait (for Bromadiolone: 1.7×10^{-17} Pa (MPBPWIN v1.43, Modified Grain Method)).
Relative Density:	1.12 g/mL @ 20°C
Solubility (water):	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,).
Solubility (solvents):	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).
Partition coefficient: n-octanol/water:	Not applicable to rodenticide bait (for Bromadiolone: 4.64 at 22°C (pH not reported)).
Auto-ignition temperature:	Not applicable, CONTRAC BLOX does not contain components classified as flammable.
Decomposition temperature:	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 ºC).
Viscosity:	Not applicable, CONTRAC BLOX is not a liquid.
Explosive properties:	Not applicable, CONTRAC BLOX does not contain components classified as explosive**.**
Oxidising properties:	Not applicable**,** CONTRAC BLOX 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 BLOX is a solid block 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 BLOX contains no components known to have a mutagenetic effect.
11.1.2.1 (f) Carcinogenicity
CONTRAC BLOX contains no components known to have a carcinogenetic effect**.**
11.1.2.1 (g) Reproductive Toxicity
CONTRAC BLOX: No data
11.1.2.1 (h) STOT-Single Exposure
CONTRAC BLOX: No data
11.1.2.1 (i) STOT Repeated Exposure
CONTRAC BLOX: is classified as STOT RE2 – Specific Target organ toxicity – Repeated exposure, Category 2
11.1.2.1 (j) Aspiration Hazard
Not applicable. CONTRAC BLOX is a solid block.

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 Blox is formulated @0.005% or 50ppm Bromadiolone. Ecological effects would be significantly lower for Contrac Blox.

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_{OC}: 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 Blox is regulated under Regulation (EU) No 528/2012 (as amended).
15.2. Chemical safety assessment: Exempt, CONTRAC BLOX is regulated under Regulation (EU) No 528/2012 (as amended).
15.3. Authorisation number IE: IE/BPA 70118
Authorisation number UK : HSE 6718

16. OTHER INFORMATION

CLASSIFICATION AND PROCEDURES USED IN PREPARATION OF THIS SDS:

16.1. Indication of changes
This is version 6 of the Safety Data Sheet for CONTRAC BLOX. Updates to version 5 were made to align accidental release measure with the product label.

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

Classification according to Regulation (EC) No. 1272/2008	**Classification Procedure**
STOT RE2 – Specific Target organ toxicity – Repeated exposure, Category 2 H373 – may cause damage to organs through prolonged or repeated exposure	Concentration limit for Bromadiolone: STOT RE 2; H373: 0.0005% ≤ C < 0.005% (according to Committee for Risk Assessment, *Opinion proposing harmonised classification and labelling at EU level of Bromadiolone*, March 2014).

16.5. Full Text for Hazard Class/Hazard Statements and Symbols/Risk Phrases

Acute tox. 1: Acute toxicity, Category 1
Repr. 1A: Reproductive toxicant Category 1A
STOT RE 1: Specific target organ toxicity — Repeated exposure, Category 1
Aquatic Acute 1; Hazardous to the aquatic environment — Acute, Category 1
Aquatic Chronic 1; Hazardous to the aquatic environment — Chronic, 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
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

T+: Very Toxic

Repr. Cat. 1: Toxic to reproduction, Category 1
N: Dangerous for the environment
R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed
R48/23/24/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R61: May cause harm to the unborn child
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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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