



SOLO BLOX

SAFETY DATA SHEET

ACCORDING TO REGULATION EC:
Regulation (EC) No. 1272/2008 (as
amended)

DATE OF ISSUE:
August 2015

PREPARED BY:
TH

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

1.1. Product Identifier:

SOLO 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 (RB)

FORM: Wax block bait (BB)

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

AUTHORISATION HOLDER:

Bell Laboratories, Inc.
Chaucer House, Chaucer Rd.
Sudbury, Suffolk
CO10 1LN, UK
t: +44 1781 379 295
e: emea@belllabs.com

1.4. Emergency telephone number

+1-952-852-4636 – Available 24h

English language phone service

or Local or Regional Poison Control Centre:

National Emergency Telephone Numbers

Ireland	01 809 2166 0800h – 2200h 7 days a week
UK	844 892 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 Regulation (EC) 1272/2008

Signal Word: Not applicable
Pictogram: Not applicable
Hazard Statement(s): Not applicable
(P statements) P102, P103, P262, P270, P273, P280, P301+310, P404 + P405, P501

2.3. Other Hazards

Contains the anticoagulant Brodifacoum 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 Brodifacoum					
Chemical name* (IUPAC)	% By weight*	CAS No.	EC No.	Classification**	
Brodifacoum 3-(3-(4'-bromobiphenyl-4-yl)-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin	0.005 %	56073-10-0	259-980-5	Regulation 1272/2008	Acute Tox. 2 H300 Acute Tox. 1 H310 STOT RE 1 H372 Aquatic chronic 1 H410
				Directive 67/548/EEC	T+; R27/28, T; R48/24/25, R50/53 N; R50/53 S2, S36/37, S45, S60, S61

*Unlisted components not listed are non-hazardous

**Proposed classification 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 K₁ intramuscularly or orally as indicated for bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

Antidote: Phytomenadione, Vitamin K₁ 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 contamination of streams, rivers, or lakes 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.

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 - ready to use

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:	Red solid wax blocks
Odour:	Sweet grain-like
Odour Threshold:	Not applicable, odour not associated with a hazardous material.
pH:	Not applicable, SOLO BLOX is not dispersible with water.
Melting point:	Not applicable to rodenticide bait (melting point for Brodifacoum is 232°C).
Boiling point:	Not applicable to rodenticide bait (Brodifacoum decomposes before boiling).
Flash point:	Not applicable, SOLO BLOX does not contain components classified as flammable.
Evaporation rate:	Not applicable, SOLO BLOX is a solid.
Upper/lower flammability or explosive limits:	Not applicable, SOLO BLOX does not contain components classified as flammable or explosive.
Vapour Pressure:	Not applicable to rodenticide bait (for Brodifacoum: $<< 10E-6$ Pa at 20 °C Gas saturation method)
Relative Density:	1.12 g/mL @ 20°C
Solubility (water):	Not water soluble (for Brodifacoum: pH 5: $\leq 3.17E-6$ g/l 20 °C; pH 7: 5.80E-5 g/l at 20 °C pH 9: 1.86E-3 g/l at 20 °C)
Partition coefficient: n-octanol/water:	Not applicable to rodenticide bait (for Brodifacoum: pH 5 5.99–6.13; pH 7 4.92 pH 9 4.78 – all at 20°C)
Auto-ignition temperature:	Not applicable, SOLO BLOX does not contain components classified as flammable.
Decomposition temperature:	Not applicable to rodenticide bait or Brodifacoum (MPBPWIN v 1.42 predicted boiling point for Brodifacoum 235.8 °C)
Explosive properties:	Not applicable, SOLO BLOX does not contain components classified as explosive.
Oxidising properties:	Not applicable, SOLO 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. There are no particular risks of reaction with other substances in normal conditions of use.

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 – Not applicable

11.1.2.1 (a) Acute Toxicity

LD50, oral (ingestion): >5000 mg/kg (rats) (Brodifacoum Rat LD50 oral: <5mg/kg bw).

LD50, dermal (skin contact): > 5001 mg/kg (rats) (Brodifacoum Rat LD50 dermal: 7.48 mg/kg bw (female rats).

LC50, inhalation: SOLO 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 (Buehler test method).

11.1.2.1 (e) Germ cell mutagenicity

SOLO BLOX contains no components known to have a mutagenetic effect.

11.1.2.1 (f) Carcinogenicity

SOLO BLOX contains no components known to have a carcinogenetic effect.

11.1.2.1 (g) Reproductive Toxicity

SOLO BLOX: No data available.

11.1.2.1 (h) STOT-Single Exposure

SOLO BLOX: No data available.

11.1.2.1 (i) STOT Repeated Exposure

SOLO BLOX: No data available.

11.1.2.1 (j) Aspiration Hazard

Not relevant. SOLO BLOX is a solid block.

12. ECOLOGICAL INFORMATION

GENERAL INFORMATION:

The environmental risk assessment shows that Brodifacoum does not cause unacceptable risk in the aquatic environment, terrestrial environment or in the atmosphere. Brodifacoum is neither expected to accumulate in sediment nor contaminate groundwater. Predatory and scavenging mammals and birds might be poisoned if they have eaten the bait. Use a bait station to minimize these risks. Please note, the data below reflects the active ingredient Brodifacoum. Solo Blox is formulated @0.005% or 50ppm Brodifacoum. Ecological effects would be significantly lower for Solo Blox.

12.1. Toxicity

For Brodifacoum:

Fish: 96h LC50 (*Oncorhynchus mykiss*) = **0.042 mg/l**

Invertebrates: 48h EC50 (*Daphnia magna*) **0.25 mg/l**

Algae: 72h EbC50 *Selenastrum capricornutum* = **>ErC50 = 0.04 mg/l**

Microorganisms (activated sludge): **>0.058 mg/l** (based on water solubility at pH 7 and T = 20°C)

12.2. Persistence and degradability

For Brodifacoum: As no data on degradation in marine water, freshwater or sediment are available, Brodifacoum is considered to be potentially persistent. Brodifacoum is not readily or inherently biodegradable.

12.3. Bioaccumulative potential

The low water solubility (< 0.1 mg/l) and the high absorption characteristics of *Brodifacoum* (log Pow > 4.0, Log Koc = 8.50) combined with the potential for the active substance to ionise, indicate that the active substance has a negligible potential for leaching out of the wax block. It is therefore considered that the potential for percutaneous absorption from the finished biocidal product is minimal.

12.4. Mobility in Soil

Brodifacoum is immobile in soil (Koc > 9155 l/kg).

Mobility of Brodifacoum in soil is considered to be minimal.

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

4.5. 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

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: Solo Blox is regulated under Regulation (EU) 528/2012

Substances in Candidate list (Art 59 REACH) : None

Substances subject to authorization (Annex XIV REACH): None

Restrictions (Annex XVII REACH): None

15.2. Chemical safety assessment: Exempt, SOLO BLOX is regulated under Regulation (EU) 528/2012

15.3. Authorisation number IE: IE/BPA 70255

Authorisation number UK : UK-2015-0905

16. OTHER INFORMATION

CLASSIFICATION AND PROCEDURES USED IN PREPARATION OF THIS SDS:

16.1. Indication of changes

This is version 3 of the Safety Data Sheet for SOLO BLOX. Updates to version 2 were made to amend the regulation this MSDS is based upon, and o add the authorization holder and numbers.

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, 17 September 2009, revised 16 December 2010).

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**

Not classified on the basis of available test data.

Classification according to Directive 1999/45/EC

Not classified on the basis of available test data.

16.5. Relevant Precautionary Statements

SOLO BLOX: Not applicable (not classified).

P102: Keep out of reach of children.

P103: Read label before use.

P262: Do not get on skin

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment

P280: Wear protective gloves

P301+310: IF SWALLOWED: Immediately call a poison centre or doctor/physician.

P404+405: Store locked up in a closed container.

P501: Dispose of contents/container in accordance with national regulations.

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. The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data relevant to their particular use.