



FORMUS[®] ALL-WEATHER BLOX

SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA
Hazard Communication Standard 29 CFR 1910.1200

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PREPARED BY:
CAR

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: FORMUS[®] ALL-WEATHER BLOX

EPA Registration Number: 12455-108

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Anticoagulant Rodenticide - Ready to use

Uses advised against: Use only for the purpose described above

MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc.

3699 Kinsman Blvd.

Madison, WI 53704, USA

Email: sds@belllabs.com

Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636

Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

2. HAZARD IDENTIFICATION

Classification according to Regulation OSHA 1910.1200(d): Not classified

See Section 15 for information on FIFRA applicable safety, health, and environmental classifications.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Brodifacoum [3-[3-(4'-Bromo-[1,1'-biphenyl]-4-yl)-1,2,3,4-tetrahydro-1-naphthalenyl]-4-hydroxy-2H-1-benzopyran-2-one]	56073-10-0	0.0025%
Inert and Non-Hazardous Ingredients	Proprietary	99.995%

4. FIRST AID MEASURES

Description of first aid measures

Ingestion: Call physician or emergency number immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by physician.

Inhalation: Not applicable.

Eye contact: Hold eye open and rinse slowly with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops, obtain medical assistance.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If irritation develops, obtain medical assistance.

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.

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.

Advice to Veterinarian: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K₁. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

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.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Gloves should be worn when handling the bait. Collect spillage without creating dust.

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.

Methods and materials for containment and cleaning up

For Containment: Sweep up spilled material immediately. Place in properly labeled container for disposal or re-use.

For Cleaning Up: Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.

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

Precautions for safe handling: Do not handle the product near food, animal foodstuffs or drinking water. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Conditions for safe storage, including any incompatibilities: Store only in original container in a cool, dry place, inaccessible to pets and wildlife. Do not contaminate water, food or feed by storage or disposal. Keep containers closed and away from other chemicals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Established Limits

Component	OSHA	ACGIH	Other Limits
Brodifacoum	Not Established	Not Established	Not Established

Appropriate Engineering Controls: Not required

Occupational exposure limits: Not established

Personal Protective Equipment:

Respiratory protection: Not required

Eye protection: Not required

Skin protection: Shoes plus socks, and waterproof gloves.

Hygiene recommendations: Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance/Color:	Brownish purple wax block
Odor:	Sweet grain-like
Odor Threshold:	Not applicable, odor not associated with a hazardous material.
pH:	Not applicable, Formus All-Weather Blox is not dispersible with water.
Melting point:	Not applicable to rodenticide bait
Boiling point:	Not applicable to rodenticide bait
Flash point:	Not applicable, Formus All-Weather Blox does not contain components classified as flammable.
Evaporation rate:	Not applicable, Formus All-Weather Blox is a solid.
Upper/lower flammability or explosive limits:	Not applicable, Formus All-Weather Blox does not contain components classified as flammable or explosive.
Vapor Pressure:	Not applicable to rodenticide bait
Vapor Density:	NA: Formus All-Weather Blox is a solid
Relative Density:	1.13 g/mL @ 20°C
Solubility (water):	Not water soluble
Solubility (solvents):	Not applicable to rodenticide bait
Partition coefficient: n-octanol/water:	Not applicable to rodenticide bait
Auto-ignition temperature:	Not applicable, Formus All-Weather Blox does not contain components classified as flammable.
Decomposition temperature:	Not applicable to rodenticide bait
Viscosity:	Not applicable, Formus All-Weather Blox is not a liquid.

10. STABILITY AND REACTIVITY

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

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

Possibility of hazardous reactions: Refer to Hazardous decomposition products

Conditions to avoid: Avoid extreme temperatures (below 0°C or above 40°C).

Incompatible materials: Avoid strongly alkaline materials.

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

Information on toxicological effects

Acute Toxicity

LD50, oral (ingestion): >5001 mg/kg (rats) (Brodifacoum rat LD50 oral: 0.490 mg/kg bw).

LD50, dermal (skin contact): > 5001 mg/kg (rats) (Brodifacoum rabbit LD50 dermal: 4.185 mg/kg bw).

LC50, inhalation: Formus All-Weather Blox is a wax block and therefore exposure by inhalation is not relevant.

Skin corrosion/irritation: Not irritating to skin.

Serious eye damage/Irritation: Not irritating to eyes.

Respiratory or skin sensitization: Dermal sensitization: Not a Sensitizer (Guinea pig maximization test).

Germ cell mutagenicity: Formus All-Weather Blox contains no components known to have a mutagenetic effect.

Carcinogenicity: Formus All-Weather Blox contains no components known to have a carcinogenetic effect.

Components	NTP	IARC	OSHA
Brodifacoum	Not listed	Not listed	Not listed

Reproductive Toxicity: Formus All-Weather Blox: No data

Aspiration Hazard: Not applicable. Formus All-Weather Blox is a wax block.

Target Organ Effects: Reduced blood clotting ability.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

Persistence and degradability: Formus All-Weather Blox is inherently biodegradable.

Bioaccumulative potential: Not determined for Formus All-Weather Blox. Brodifacoum water solubility is extremely low (< 0.1mg/l).

Mobility in Soil: Not determined for Formus All-Weather Blox. Mobility of brodifacoum in soil is considered to be limited.

Other adverse effects: None.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed. [Paper:] Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration. In most states, burning is not allowed.

14. TRANSPORT INFORMATION

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group : Not regulated

Environmental Hazards

DOT Road/Rail: Not considered hazardous for transportation via road/rail.

DOT Maritime: Not considered hazardous for transportation by vessel.

DOT Air: Not considered hazardous for transportation by air.

Freight Classification: LTL Class 60

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

Special precautions for user: None

15. REGULATORY INFORMATION

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

FIFRA: This pesticide product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental, and hazard information required on the pesticide label is listed below and reflected throughout this SDS. The pesticide label also includes other important information, including directions for use.

Signal Word: CAUTION

Precautionary Statements: Contains the anticoagulant Brodifacoum which may cause bleeding if ingested. Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing.

Potential Health Effects:

Eye Contact: May cause irritation

Skin Contact: Non-irritating to the skin

Ingestion: Harmful if swallowed

TSCA: All components are listed on the TSCA Inventory or are not subject to TSCA requirements

CERCLA/SARA 313: Not listed

CERCLA/SARA 302: Not listed

16. OTHER INFORMATION

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

NFPA	Health: 1 (caution)	Flammability: 0 (will not burn)	Reactivity: 0 (stable)	Specific Hazard: None
HMS	Health: 2 (moderate)	Flammability: 0 (minimal)	Reactivity: 0 (minimal)	Protective Equipment: B

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