

SAFETY DATA SHEET

MAKI BLOCK

1- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**1.1- Product identifier:**

MAKI BLOCK

1.2- Relevant identified uses of the substance/mixture and uses advised against:

Vertebrate toxic agent – Rodenticide product for the control of rats and mice.

1.3- Details of manufacturer or importer**Manufacturer and registration holder :**

LIPHATECH S.A.S

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Department in charge of information: Regulatory

Department

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infonz@desangosse.com**1.4- Emergency telephone number:****0800 764 766 (0800 POISON)** Toll free number 24 hours a day**2 -HAZARDS IDENTIFICATION****Hazard classification:** Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.**ERMA New Zealand Approval Code:** HSR001603Refer to www.epa.govt.nz for Controls for this substance.**HSNO Hazard Classifications :** Specific target organ toxicity, repeated exposure Category 2, Designed for biocidal action**Pictogram:****SIGNAL Word:** WARNING**Hazard Statements:**

H373 May cause damage to blood/hematopoietic system through prolonged or repeated exposure

Prevention Statements:

P103 Read label before use

P260 Do not breathe dust

Response Statements:

P314 Get medical advice if you feel unwell

Storage Statements:

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Disposal Statements:

P501 Dispose of empty container by wrapping in paper, placing in a plastic bag and putting in garbage. Contact the Local Authority or a reputable waste disposal company for collection and disposal of unwanted product. The preparation cannot be safely neutralised. Do not release into drains or waterways.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 – Mixtures:

Component	CAS No	Concentration (% w/w)
Bromadiolone	28772-56-7	0.005
Cereal matrix, dye, formulating agents, denatonium benzoate	Proprietary	Balance

4 – FIRST AID MEASURES

4.1- Description of first aid measures

GENERAL INFORMATION:

In all cases of suspected exposure, medical assistance should be sought immediately. For advice contact national poisons Centre (Tel: 0800 764 766) or a doctor. Note that poisoning symptoms may develop over the course of several days.

EYE CONTACT:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Monitor for symptoms described above.

INHALATION:

- The product is non-dusty bait. Inhalation is not applicable as a route of exposure

SKIN CONTACT:

- Remove contaminated clothing. Launder before re-use.
- Wash affected skin immediately with soap and water.
- Monitor for symptoms described above.

INGESTION:

- Rinse out mouth with plenty of water.
- If swallowed, seek medical advice immediately and show the container/label/safety data sheet.
- Do not induce vomiting unless told to do so by the Poison Centre or doctor.
- Do not give anything by mouth to an unconscious person.

4.2- Most important symptoms and effects, both acute and delayed

Clinical symptoms: nosebleed, gum bleed, spitting blood, multiple or large haematoma, generally sudden appearance of an unusual visceral pain.

Biological symptoms: blood in the urine, increase in coagulation time

4.3- Indication of any immediate medical attention and special treatment needed

This active substance may cause serious damage to health by prolonged exposure. The active substance has antivitamin K properties and absorption or ingestion can cause blood coagulation problems including haemorrhagic syndrome.

Primary treatment is antidotal therapy rather than clinical assessment. Antidotal therapy: SPECIFIC vitamin K1 (phytonadione). 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 the 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 – FIREFIGHTING MEASURES

5.1- Extinguishing media

Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material. Foam or dry chemical fire extinguishing system is preferred to prevent excessive water run off.

5.2- Special hazards arising from the mixture

The product is not known to produce hazardous decomposition products under normal storage conditions. Normal products of organic combustion will be released under conditions of pyrolysis or combustion.

5.3- Advice for fire-fighters

Wear breathing apparatus and appropriated protective clothing.

6 – ACCIDENTAL REALEASE MEASURES

6.1- Personal precautions, protective equipment and emergency procedures

Users must observe precautions during handling and storage. See also section 8 of this material safety data sheet.

6.2- Environmental precautions

In case of major spillage in water, prevent entry into drains and waterways. If spilled product or polluted water reaches drainage systems or water courses, immediately inform the competent authorities.

6.3- Methods and material for containment and cleaning up

Collect or sweep up the product into containers for recovery and disposal. After removal, clean contaminated area with water and detergent. Avoid the entry of washings into drains or waterways. See section 13 concerning disposal methods.

6.4- Reference to other sections

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7 – HANDLING AND STORAGE

7.1- Precautions for safe handling

Read carefully the label before handling/use. When handling product for use, wear gloves. If on skin and after each baiting, wash hands thoroughly with soap and water. After each day's use, wash gloves.

Protective equipment: see section 8.

Users should wash hands immediately after handling. When using, do not eat, drink or smoke

7.2- Conditions for safe storage, including any incompatibilities

Store securely in a dry, cool, well-ventilated area out of direct sunlight.. Store in the original packaging. Keep away from food and out of reach of children.

7.3 – Specific end use

Vertebrate toxic agent – Rodenticide product for the control of rats and mice.

This product is restricted to use in and around buildings (within 2 meters) or enclosed spaces (e.g., drains).

Do not allow bait to contaminate foodstuffs or food intended for human or animal consumption.

Do not apply bait to crops.

Place baits in bait stations which are inaccessible to other animals and birds. This product is hazardous to pigs, cats, dogs, native wildlife and poultry.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 – Control parameters

Occupational exposure standards are not set for the active substance.

Users should be aware that the active substance may cause serious damage to health by prolonged exposure.

In case if frequent or prolonged use, monitoring of coagulation time of blood is recommended

8.2- Exposure controls

➤ RESPIRATORY PROTECTION:

The product is a solid block and poses no inhalation risk.

➤ HAND PROTECTION:

It is recommended that users wear disposable latex or similar gloves. Care should be taken when removing and disposing of gloves. Users should wash hands immediately after handling in all cases.

➤ EYE PROTECTION:

Eye protection is not necessary if using according to recommendations

➤ SKIN PROTECTION:

Specific protective clothing or other personal protective equipment is not required if using according to recommendations.

9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1- Information on basic physical and chemical properties

APPEARANCE: Green solid block

ODOUR: None

ODOUR THRESHOLD: Not applicable

pH: Not applicable

MELTING POINT: Not available

INITIAL BOILING POINT/RANGE: Not applicable

FLASH POINT: Not applicable

FLAMMABILITY(SOLID/GAS): Non-flammable but product will burn

UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS: Not applicable

VAPOUR PRESSURE: Not applicable

VAPOUR DENSITY: Not applicable

RELATIVE DENSITY: Not available

SOLUBILITIES: Insoluble in water

PARTITION COEFFICIENT N-OCTANOL/WATER: Not applicable

AUTO-IGNITION TEMPERATURE: Not available

DECOMPOSITION TEMPERATURE: Not available

KINEMATIC VISCOSITY: Not applicable

PARTICLE CHARACTERISTICS: Not applicable

9.2- Other information

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10 – STABILITY AND REACTIVITY

10.1- Reactivity

The product is not known to undergo hazardous reactions under normal handling conditions.

10.2- Chemical stability

The product is stable under normal ambient conditions.

10.3- Possibility of hazardous reactions

The product is not known to undergo hazardous reactions in contact with other substances.

10.4- Conditions to avoid

The product is not known to undergo hazardous reactions under normal handling conditions.

10.5- Incompatible materials

The mixture is not known to undergo hazardous reactions under normal handling conditions.

10.6- Hazardous decomposition products

The product is not known to produce hazardous decomposition products under normal storage conditions. Normal products of organic combustion will be released under conditions of pyrolysis or combustion.

11 – TOXICOLOGICAL INFORMATION

11.1- Information on toxicological effects

ACUTE TOXICITY

Product is not classified as being acutely toxic.

Studies conducted on the product

LD₅₀ oral (Rat): > 5000 mg/kg

LD₅₀ dermal (Rat): > 2000 mg/kg

LC₅₀ inhalation: Not applicable.

ASPIRATION HAZARD:

No ingredient with an aspiration hazard. Product is a solid substance.

SKIN CORROSION/IRRITATION:

Not an irritant.

SERIOUS EYE DAMAGE/IRRITATION:

Not an irritant.

RESPIRATORY OR SKIN SENSITIZATION:

Not sensitising

GERM CELL MUTAGENICITY:

No data available for the mixture.

Active substance Bromadiolone: No *in vivo* or *in vitro* evidence of mutagenicity.

CARCINOGENICITY:

No data available for the mixture.

Active substance Bromadiolone: No evidence of carcinogenicity.

REPRODUCTIVE TOXICITY:

No data available for the mixture.

Active substance Bromadiolone: No evidence of reproductive toxicity.

SPECIFIC TARGET ORGAN TOXICITY (STOT) – SINGLE EXPOSURE:

No data available

SPECIFIC TARGET ORGAN TOXICITY (STOT) – REPEATED EXPOSURE:

Product classified as STOT repeated exposure Category 2.

Studies conducted on active substance Bromadiolone

LOAEL – Dog: 20 µg/kg bw/day

NOAEL – Dog: 8 µg/kg bw/day).

The product is therefore classified as having danger of serious damage to health by prolonged exposure.

11.2- Information on possible routes of exposure

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12 – ECOLOGICAL INFORMATION**12.1- Ecotoxicity**

Product is classified as being for biocidal action. Labelling required to identify mixture as being hazardous to terrestrial vertebrates.

Studies conducted on the active substance Bromadiolone**AQUATIC ACUTE TOXICITY**

LC₅₀ Fishes (96 h.): > 8 mg/l (*Oncorhynchus Mykiss*)

EbC₅₀ Algae (72 h.): 0.17 mg/l (*Scenedesmus subspicatus*)

EC₅₀ Daphnis (48 h.): 2 mg/L (*Daphnia magna*)

The active substance is very toxic to aquatic organisms.

TOXICITY FOR TERRESTRIAL SPECIES

Acute toxicity LC₅₀ Earthworm (14 days) (*Eisenia foetida*): > 8.4 mg/kg soil

BIRD TOXICITY

Dietary (5 days) LC₅₀: 62 mgf/kg of food (*Colinus virginianus*)

Acute toxicity (5 days) : LD₅₀: 138 mg/kg pc (*Colinus virginianus*)

12.2- Persistence and degradability

The substance is not considered to be easily biodegradable.

Aerobic degradation: 0% degradation after 28 days.

12.3- Bioaccumulative potential

Log Pow: 3.8 – 4.1 (20-25°C) (pH 6-7). Bioaccumulative potential

Bioconcentration factor (BCF) : 575

12.4- Mobility in soil

The substance is considered as having low or no mobility in soil.

13 – DISPOSAL CONSIDERATIONS**13.1- Waste treatment methods****PRODUCT:**

Product will be disposed of according to applicable legislation and regulations, if necessary, after consulting an authorised waste disposal company. It is recommended that the waste product is stored in specially designated spaces or destroyed in incineration facilities by the waste disposal companies.

Care should be taken to ensure that disposal methods do not expose the preparation to non-target wild or domestic animals or pets. Dispose of according to national/local law. Do not release into drains or waterways. Do not contaminate water, food or feed by storage or disposal.

Do not contaminate ground, waterbodies or watercourses with chemicals or used containers. Refer to local waste and National regulations.

PACKAGING:

The empty container should not be used for any other purpose and should be disposed of considering the comments above. Do not reuse or refill the container

14 – TRANSPORT INFORMATION

Not classified as a Dangerous Good according to the New Zealand Standard NZS5433:2020, Transport of Dangerous Goods on Land.

14.1- UN Number :

This product is not classified as dangerous goods according to these regulations.

14.2- UN proper shipping name:

This product is not classified as dangerous goods according to these regulations.

14.3- Transport hazard class:

This product is not classified as dangerous goods according to these regulations.

14.4- Packing group:

This product is not classified as dangerous goods according to these regulations.

14.5- Environmental hazards:

This product is not classified as dangerous goods according to these regulations.

The active substance is very toxic to aquatic organisms and may cause long-term adverse effects.

14.6- Special precautions for user:

No special precautions

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

Not regulated.

15 – REGULATORY INFORMATION**New Zealand**

HSNO Act 1996

EPA Approval: HSR001603; Bait containing 0.05 g/kg – 0.1 g/kg bromadiolone

Refer to www.epa.govt.nz for approval controls

ACVM Act 1997

Registered pursuant to the ACVM Act: V9523

See www.foodsafety.govt.nz/acvm for registration conditions

16 – OTHER INFORMATION**Abbreviations:**

CLP: Classification, Labelling and Packaging

LD₅₀: Lethal dose 50%

LC₅₀: Lethal concentration 50%

NOEC: No observed effect concentration

EC₅₀: Effective concentration

PBT: Persistent, bioaccumulative, toxic

VPvB: Very Persistent, very Bioaccumulative

ADR: Agreement concerning the international carriage of Dangerous goods by Road

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

Information noted in this safety data sheet is based on our present technical and scientific knowledge of the product at this date.

This information should be used as a guide and does not imply any warranty concerning the specific properties of the product and the specific local needs.

Recipients of this SDS must ensure that the information it contains has been properly read and understood by all who use, handle, dispose of or in contact with the product. Our local licensee, liable for the local distribution of the product, will adapt this safety data sheet to the local regulation.