



MATERIAL SAFETY DATA SHEET

According to Regulation (EU)n° 1907/2006 (REACH)

Date/ Updated in 2014

1. Product and Company information

1.1. Product identification

MURIBROM BLOCK

Registration Nr: ES/AA-2014-14-00206

1.2. Uses

Rodenticide (product class 14) for specialized personnel, professionals and non professionals

Formulation: Block bait ready to use

Target organisms, efficiency and endurance development:

Target organisms: Grey Rats (*Rattus norvegicus*) common mice (*Mus musculus*). The product MURIBROM BLOCK is an anticoagulant rodenticide efficient to control adult and young rats and mice.

1.3. Company identification:

Química de Munguía S.A.

Derio Bidea 51

48100 Munguía (Vizcaya)

SPAIN

Telephone: +34-94 674 10 85

e-mail: info@quimunsa.com

ROESB:

1.3. Emergency Response Phone Number:

00 34 94 674 10 85 (Available only in business hours)

2. Product Hazards Identification

2.1. Substance or mixture identification:

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2.2. Label elements

Risk phrases according to RD 255/2003

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Information on Product Hazards according to regulation (EU) nr 1272/2008

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Caution advice according to RD 255/2003

S.2. Keep away from the reach of children

S.13. Keep away from food, beverage and feedstuff

S.37 Wear suitable gloves

S.46 If INGESTED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW LABEL OR CONTAINER

Caution advice according to regulation (EU) nr 1272/2008

P.102 Keep away from the reach of children

P.103 Read label before use

P.280 Wear gloves and protective clothes

P.301+P.310 If ingested, phone a toxicological information centre or a physician immediately

2.3. Other hazards

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3. Composition/Information on ingredients

<u>Ingredients</u>	<u>EINECS Nr</u>	<u>CAS Nr</u>	<u>% w/w</u>	<u>Labelling according to 67/548/CEE</u>	<u>Classification according to regulation (EU) No. 1272/2008 [UE-GHS/CLP]</u>
Bromadiolone	249-205-9	28772-56-7	0.005	R48/23/24/25; R50/53; R61 T+, N	Acute tox 1; Tox.Reproductio n.1A; STOT 1 Acute aquatic 1; Aquatic Chronic 1; H300, H310, H330; H360D; H372; H400; H410

R, H, and EUH full statement see Chapter 16

4. First Aid Measures

4.1. First Aid instructions

- Remove patient from contaminated area.
Remove dirty or sprinkled clothing
Wash eyes with plenty of water for 15 minutes at least. Do not forget removing contact lenses.
Wash skin with plenty of water and soap without rubbing.
If ingested, DO NOT induce vomiting and do not dispense anything orally.
Keep patient resting
Keep body temperature
Control breathing. Artificial respiration if necessary.
- If unconscious, lay the patient aside with head in a lower position than the rest of the body and knees semi-flexed
Move patient to a health centre and show label or container if possible.
NEVER LEAVE PATIENT ALONE.

4.2 Main symptoms and acute and delayed effects: Poisoning may cause:

Bleeding diathesis due to antiprothrombin effect. Prothrombin prolonged time may become evident in a minimum period of 24 hours and maximum 72 hours (normal prothrombin time when getting to the health centre does not exclude diagnosis)

4.3 Instructions for medical care and treatments which must be dispensed immediately

Therapeutic advice:

If ingested less than 2 hours ago, proceed with gastric emptying and dispense active charcoal (1 dose 25 gr) afterwards.
Antidote: K1 vitamin
Control prothrombin time
Symptomatic treatment

IN CASE OF ACCIDENT PHONE MEDICAL SERVICE FOR TOXICOLOGICAL INFORMATION
PHONE NR 00 34 91 562 04 20.

5. Fire fighting measures

5.1. Extinguishing means

Suitable extinguishing means: Extinguish fire using foam, dust, CO2 or pulverized water.

Not suitable extinguishing means: Do not use water jets to extinguish fire, only to refresh areas and packages close to heat source



5.2. Specific hazards due to the substance or mixture

Do not breathe vapours. Combustion gases from organic material must always be considered as toxic by inhalation

5.3. Advice for fire fighters : Use masks with filters for organic products or autonomous kits in closed premises.

6. Accidental release measures

6.1. Personal caution, protective equipment and emergency procedures:

Do not perform any action without suitable training or if personal risk is expected. Do not let unnecessary personnel or personnel without suitable individual protection in (see section 8)

6.2. Caution concerning environment.

Avoid dispersing spilled material and contact with soil, aquatic environment, drains and sewerage
Inform authorities if the product has caused environmental contamination: sewerage, watercourses, ground or air.

6.3. Methods and material for cleaning and containment:

Channel large volumes and collect them in containers: remove according to local regulation in force.
Wash small volumes with water. Remove used water according to local regulation in force.

7. Handling and storage

7.1. Cautions for a safe handling

Read the label carefully before use and follow proposed instructions.

Charged bait-carriers must be placed in a safe way and located on inaccessible areas to children, pets and other non targeted animals

Do not apply on areas where food/feedstuff, cookware or food processing may contact the product or be contaminated by it.

Bait-carriers must be periodically inspected (every 3 or 4 days) and replace any consumed by rodents, damaged by water or contaminated by dirt bait.

Using conditions in professional use by specialized personnel: If necessary, in sewerage bait blocks must be tightly fastened to placement to reduce the possibility of being dragged by watercourses.

Avoid using the product on the areas where endurance to active ingredient is pointed out. To prevent endurance development and its dissemination, rodents susceptibility to bromadiolone must be ensured before starting treatment. After control campaign achieving planned aims must be checked.

Instructions for use.

-NON PROFESSIONAL PERSONNEL. MURIBROM BLOCK, applied by non professional personnel, must be located indoor and around private housing (without overcoming a maximum length of 5,5 metres between bait-carrier and house) in properly labelled bait-carriers.

-PROFESSIONAL PERSONNEL. MURIBROM BLOCK, applied by professional personnel, must be located indoor and around buildings, fixtures or mobile facilities closely related to livestock (without overcoming a maximum length of 0,5 metres between bait-carrier and buildings/facilities) in properly labelled bait-carriers.

-SPECIALIZED PERSONNEL. MURIBROM BLOCK, applied by specialized professional Personnel must be located indoor and around buildings, fixtures or mobile facilities (without overcoming a maximum length of 0,5 metres between bait-carrier and buildings/facilities) in means of transport and dumps in properly labelled bait-carriers.

MURIBROM BLOCK, applied by specialized professional personnel, may be also applied in sewerage if necessary, tightly fastened to placement.



Packaging

NON PROFESSIONAL PERSONNEL. 5, 10, 15, 20, 30 50 and 100 gr blocks in 100, 150, 200, 250 300, 400, 500 and 1000gr packages.

5gr blocks package must be only used in bait-carriers intended for mice control with 50gr/bait maximum.

PROFESSIONAL PERSONNEL. 5, 10, 15, 20, 30 50 and 100 gr blocks in 100, 150, 200, 250 300, 400, 500 and 1000gr packages..

5gr blocks package must be only used in bait-carriers intended for mice control with 50gr/bait maximum.

Only 20gr or bigger blocks, which dosage is 200gr, will be used for bait-carriers to control rats when infestation is high.

SPECIALIZED PERSONNEL. 5, 10, 15, 20, 30, 50 and 100gr in 100, 150, 200, 250, 300, 400, 500 and 1000gr packages. And 2, 3, 5, 10, 15, 20 and 25kg.

5gr blocks packages will be only used for bait-carriers intended for mice control with 50gr/bait maximum. Only 20gr or bigger blocks, which dosage is 200gr, will be used for bait-carriers to control rats when infestation is high.

Application dosage

NON PROFESSIONAL PERSONNEL:

Mice: Bait-carriers with 50gr/product maximum in 5,10,15, 20, 30 or 50gr each 10m2..

Rats: Bait-carriers with 100gr/product maximum in 10, 15, 20, 30, 50 or 100gr each 10m2.

PROFESSIONAL PERSONNEL

Mice: Bait-carriers with 50gr/product maximum in 5,10,15, 20, 30 or 50gr each 10m2..

Rats: Bait-carriers with 100gr/product maximum in 10, 15, 20, 30, 50 or 100gr each 10m2

In case of high infestation bait-carriers with 200gr/product maximum in 20, 30, 50 or 100gr each 10m2.

SPECIALIZED PERSONNEL:

Mice: Bait-carriers with 50gr/product maximum in 5,10,15, 20, 30 or 50gr each 10m2..

Rats: Bait-carriers with 100gr/product maximum in 10, 15, 20, 30, 50 or 100gr each 10m2

In case of high infestation bait-carriers with 200gr/product maximum in 20, 30, 50 or 100gr each.

Rats (sewerage) 150/200gr bait each application point in 20, 30, 50 or 100gr/block.

Caution measures

To avoid risk to people follow instruction for use.

Wash hands and skin exposed areas after applying the product.

To minimize endurance and primary poisoning risk, this product must not be used to prevent rodent occurrence.

To avoid endurance alternating baits which contain different anticoagulant substances is recommended..

To minimize secondary poisoning death rodents must be located and removed at frequent intervals during treatment and at least always baits are inspected and/or replaced.

Do not throw this product on soils, watercourses, sinks or drains.

Store in the original container and in a cool, dry and ventilated properly.

Keep away from sunlight and other heat sources. Protect against frost. Keep away from strong odours sources.

Contains a bittering agent and a colouring matter.

Use by specialized professional personnel: Empty containers, dead rodents, baits and bait-carriers must be managed according to regulation in force and by accredited companies.

Use by professional and non professional personnel: Empty containers, dead rodents, baits and bait-carriers must be deposited in collection points or in the points established by local authorities according to their respective regulations.

If the product is being used in public areas the following safety cautions must be observed: Treated areas must be marked off during treatment period and a notice explaining primary or secondary poisoning risk caused by anticoagulant and first aid measures in case of poisoning must be placed.



7.2. Storage

Keep away from sunlight and frost.
Keep in the original container
Keep in a dry place and in closed containers.

7.3. Specific end uses

Rodenticide (product class 14 for specialized professional personnel, professional personnel and non professional personnel)

8. **Exposure limits and individual protective equipment**

8.1. Exposure limits

Not applicable

8.2. Individual protective equipment

Wear disposable latex/vinile gloves cat.I UNE EN 420.
Observe general measures for protection and hygiene. Avoid contact with skin, eyes and clothes.

9. **Physical and Chemical characteristics**

9.1. **Information on basic physical and chemical characteristics**

Physical state	waxen solid
Colour	red
Odour	Not measurable
Density	1.1.gr/cm ³ at 20°C
Melting point	>56°C
Boiling point	N.A.
Steam pressure	N.A.
Decomposition temperature	N. A
Flammability point (open cup))	N.A.
Solubility in water	Practically insoluble
Solubility in organic solvents	Practically insoluble
Partition coefficient n-Octanol/water	N.A.
Acidity/Alkalinity	N.A
Incompatible with	Acids and strong alkalis.

10. **Stability and Reactivity**

This product meets 2 years at room temperature stability trials.

10.1. Conditions to avoid

Moisture. Avoid contact with acids and strong alkalis

10.2. Hazardous decomposition products

Thermal decomposition may cause carbon oxide, nitrogen and other toxic fumes. Therefore, in case of fire or combustion avoid breathing fumes.

11. **Toxicological information**

Acute toxicity

LD 50 oral in rats: > 5000mg/kg

LD50 oral in mice: > 5000mg/kg



12. Ecological information

12.1 Toxicity. Avoid contact with river or groundwater

Toxicity to birds:

Quail: DL50 oral: 640g/kg
Japanese quail DL50 oral: 480g/kg

Toxicity to fish

Rainbow trout CL 50 28g/l (96h)

12.2. Persistence and degradability

It is metabolized slowly in the soil

Aerobic trial: Life average 53 days

Anaerobic trial: Life average 60 days

12.3. Bioaccumulation potential

Nothing indicating product bioaccumulation

12.4. Mobility in soils: Not available

13. Disposal regulations

Use by specialized professional personnel: Empty containers, dead rodents, baits and bait-carriers must be managed according to regulation in force by authorized companies

Use by professional personnel and non professional personnel: Empty containers, dead rodents, baits and bait-carriers must be deposited in collection points or in those points established by local authorities according to their respective regulations.

14. Transport information

Not under regulation ADR, IMDG or IATA

15. Regulations

This product must be labelled with the following data:

Risk phrases according to RD 255/2003

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Hazards information according to regulation (EU) nr 1273/2008

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Caution advice according to RD 255/2003

S.2. Keep away from the reach of children

S 13 Keep away from food, beverage and feedstuff

S. 17 Wear suitable gloves

S. 46 If INGESTED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW LABEL OR CONTAINER.

Caution advice according to regulation (EU) nr 1272/2008

P. 102 Keep away from the reach of children

P. 103 Read label before use

P. 280 Wear gloves and protective clothes

P. 301+P. 310 If ingested, seek medical advice immediately or phone a medical service for toxicological information.



16. Further information

Data sources used to develop this MSDS:

Regulation EU 67/548/EU and RD 255 version in force

Regulation (EU) nr 1907/2006 (REACH) 1272/2008 (CLR) version in force respectively.

Transport regulation according to ADR, RID, IMDC, IATA version in force respectively.

R and H phrases statements specified in Chapter 3:

- R. 48 23/24/25: Toxic. Risk of serious effects to health in case of prolonged exposure by inhalation contact with skin or ingestion.
- R. 50/53 Very toxic to aquatic organisms it may cause long term adverse effects in aquatic environment.
- R. 61 Adverse effects risk to foetus during pregnancy
- T+ Very toxic
- N Hazardous to environment
- H. 300 Lethal if ingested
- H. 310 Lethal in contact with skin
- H. 330 Lethal if inhaled
- H. 360D It may harm fertility or foetus
- H. 372 It causes organ damage after long or repeated exposure
- H. 400 Very toxic to aquatic organisms
- H. 410 Very toxic to aquatic organisms with long lasting harmful effects
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