



Kollant S.r.l.

Revision nr. 2

Dated 19/01/2016

Printed on 19/01/2016

Page n. 1/11

8210304 - BRODY WAX BLOCK

Safety data sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **8210304**
Product name: **BRODY WAX BLOCK**
Chemical name and synonym: **Brodifacoum (0.005%) - Denatonium benzoate (0.001%)**

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

Intended use: **Ready to use lump raticide for non professional use.**

1.3. Details of the supplier of the safety data sheet

Name: **Kollant S.r.l.**
Full address: **Via C. Colombo, 7/7A**
District and Country: **30030 Vigonovo (VE)**
Italia
Tel. +39 049 9983000
Fax +39 049 9983005

e-mail address of the competent person
responsible for the Safety Data Sheet

info@kollant.it

1.4. Emergency telephone number

For urgent inquiries refer to
CAVp Osp. Pediatrico Bambino Gesù - Tel. 06-68593726
Az. Osp. Univ. Foggia - Tel. 0881-732326
Az. Osp. 'A. Cardarelli' - Tel. 081-7472870
CAV Policlinico 'Umberto I' - Tel. 06-49978000
CAV Policlinico 'A. Gemelli' - Tel. 06-3054343
Az. Osp. 'Careggi' U.O. Tossicologia Medica - Tel. 055-7947819
CAV Centro Nazionale di Informazione Tossicologica - Tel. 0382-24444
Osp. Niguarda Ca' Granda - Tel. 02-66101029
Azienda Ospedaliera Papa Giovanni XXIII - Tel. 800883300

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments.
Hazard classification and indication:

2.2. Label elements.

Hazard pictograms: --

Signal words: --

**8210304 - BRODY WAX BLOCK**

Hazard statements:

--

Precautionary statements:

P102	Keep out of reach of children.
P103	Read label before use.
P220	Keep / Store away from clothing / . . . / combustible materials.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .
P404	Store in a closed container.
P405	Store locked up.
P501	Dispose of contents / container conforming to the current National regulation.

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.**3.1. Substances.**

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
1,2-PROPANEDIOL		
CAS. 57-55-6	1 - 5	
EC. 200-338-0		
INDEX. -		

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.**4.1. Description of first aid measures.**Prevent the access of children and domestic animals.
Do not contaminate foodstuffs with the product.

First aid measures:

•

Inhalation: None



Kollant S.r.l.

Revision nr. 2

Dated 19/01/2016

Printed on 19/01/2016

Page n. 3/11

8210304 - BRODY WAX BLOCK

• Skin contact: Flush skin immediately and thoroughly with soap and water. If necessary, consult a physician.

• Eye contact: Flush immediately and thoroughly with water. Seek medical advice.

• Ingestion: Seek medical advice immediately and show the container or label.

ADVICE FOR DOCTORS:

Pharmaceutical-dynamic action: the active substance contained in the product is a competitive antagonist of Vitamin K and reduces the hepatic synthesis of K-dependent factors.

Symptoms: heavy poisoning by ingestion inhibits the vitamin K, causing skin and mucous haemorrhages. The symptomatology of the other systems and apparatus is prevalingly haemorrhagic.

Therapy: in case of ingestion of big quantities, provoke vomiting, perform gastric lavage and monitor the protrombinic activity; if it reduces, give vitamin K.

Contraindications: anticoagulants.

Antidotes: vitamin K1.

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

For symptoms and effects caused by the contained substances see chap. 11.

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

Referring to the cases described in section 4.1, consult a doctor.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

5.3. Advice for firefighters.

GENERAL INFORMATION



Kollant S.r.l.

Revision nr. 2

Dated 19/01/2016

Printed on 19/01/2016

Page n. 4/11

8210304 - BRODY WAX BLOCK

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

**8210304 - BRODY WAX BLOCK****SECTION 8. Exposure controls/personal protection.****8.1. Control parameters.**

Regulatory References:

GRB United Kingdom EH40/2005 Workplace exposure limits

1,2-PROPANEDIOL**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	GRB	474	150		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls.

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

Appearance	Wax block
Colour	blue
Odour	mild
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	Not applicable.
Boiling range.	Not available.
Flash point.	Not applicable.
Evaporation Rate	Not available.
Flammability of solids and gases	not flammable

**8210304 - BRODY WAX BLOCK**

Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	Not available.
Solubility	Not hydrosoluble
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not explosive
Oxidising properties	Not oxidant

9.2. Other information.

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0

SECTION 10. Stability and reactivity.**10.1. Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

1,2-PROPANEDIOL: it is hygroscopic and stable under normal conditions; at high temperatures it tends to oxidate to form propionaldehyde and lactic and acetic acid.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

1,2-PROPANEDIOL: can react dangerously with: acid chlorides, acid anhydrides and oxidising agents.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.



Kollant S.r.l.

Revision nr. 2

Dated 19/01/2016

Printed on 19/01/2016

Page n. 7/11

8210304 - BRODY WAX BLOCK

10.6. Hazardous decomposition products.

1,2-PROPANEDIOL: carbon oxides.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

Pharmaceutical-dynamic action: the active substance contained in the product is a competitive antagonist of Vitamin K and reduces the hepatic synthesis of K-dependent factors.

The symptomatology of the other systems and apparatus is prevailingly haemorrhagic.

DL50 (oral, rat): 5000 mg/kg
DL50 (dermal, rat): >2000 mg/kg
No dermal irritating (rabbit)
No eyes irritant (rabbit)

1,2-PROPANEDIOL
LD50 (Oral).20800 mg/kg Rat
LD50 (Dermal).20800 mg/kg Rat

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity.

Information not available.

12.2. Persistence and degradability.

1,2-PROPANEDIOL
Solubility in water. mg/l 1000 - 10000
Rapidly biodegradable.

12.3. Bioaccumulative potential.

1,2-PROPANEDIOL
Partition coefficient: n-octanol/water. -1,07
BCF. 0,09

**8210304 - BRODY WAX BLOCK****12.4. Mobility in soil.**

1,2-PROPANEDIOL

Partition coefficient:
soil/water. 0,46**12.5. Results of PBT and vPvB assessment.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.**13.1. Waste treatment methods.**

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Solid residues may be suitable for disposal in an authorised landfill site.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.**14.1. UN number.**

Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.



Kollant S.r.l.

Revision nr. 2

Dated 19/01/2016

Printed on 19/01/2016

Page n. 9/11

8210304 - BRODY WAX BLOCK

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

None.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

**8210304 - BRODY WAX BLOCK**Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Information not available.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition



Kollant S.r.l.

Revision nr. 2

Dated 19/01/2016

Printed on 19/01/2016

Page n. 11/11

8210304 - BRODY WAX BLOCK

- ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 06 / 07 / 08 / 10 / 11 / 12 / 14.