

Safety Data Sheet dated 17/06/2013, version 1

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

1.1. Product identifier

Trade name: RACO PROBLOCK

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

Recommended use:

Rodenticide - Biocidal use

Ready-to-use

Amateur use

Uses advised against:

Do not use for purposes other than those stated in "Recommended uses"

1.3. Details of the supplier of the safety data sheet

Company name and address:

Lodi Group

Parc d'Activités des Quatre Routes

35390 Grand Fougeray

France

Tel 0033 (0) 2.99.08.48.59

Competent person responsible for the safety data sheet: regulatory@lodi.fr

1.4. Emergency telephone number

NPIS (National Poison Centre) - Birmingham Unit

[To be called by medical staff or physicians]

City Hospital, Birmingham, B18 7QH, UK

Tel: 0844 892 011

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols: None

Adverse physicochemical, human health and environmental effects: None

2.2. Label elements

The preparation should not be considered as dangerous accordingly to dir. 1999/45/EC.

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

vPvB Substances: None

PBT Substances: None

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

0,005% Difenacoum

N^oCAS : 56073-07-5

N^oCE : 259-978-4

D67/548 : T+ R28; T R48/25; N R50/53

R1272/2008 : Acute Tox.1 (H300); STOT RE 1 (H372); Aquatic Acute 1 (H400)

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Thoroughly wash with soap and water

Remove soiled clothing and wash exposed skin with soap and water

In case of eyes contact:

Remove contact lenses if present

Rinse the eye slowly and gently with water for 15-20 minutes

Seek medical advice immediately

In case of Ingestion:

Immediately consult a physician and show the label.

In case of Inhalation:

Inhalation not very probable

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

Effects result from the inhibition of blood coagulation as Bromadiolone interacts with vitamin K1.

Poisoning symptoms may include: bruising easily, nose or gum bleeds, blood in stools or urine, excessive bleeding from minor cuts or abrasions.

Note that poisoning symptoms may develop over the course of several days.

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

Consult a physician and show the label

In general, when in doubt, contact a physician or the poison centre

In case of accidental poisoning by a domestic animal, go to the vet and show the label.

Antidote = Vitamin K1, under medical supervision

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water. Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons: None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases/fumes. Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

Rapidly recover the product. To do so, wear gloves and protective clothing.
Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed
Keep container tightly closed in a cool, dry and well ventilated place.
Keep away from food, drink and feed.
Incompatible materials: None in particular.
Instructions as regards storage premises: Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available
DNEL Exposure Limit Values: Not applicable
PNEC Exposure Limit Values : Not applicable

8.2. Exposure controls

Eye protection:
None
Protection for skin:
Wash clothing regularly
Protection for hands:
Avoid contact with skin
Wear gloves
Respiratory protection:
None
Thermal Hazards:
None

Environmental exposure controls:
Avoid release in the environment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	Red Bloc
Odour:	Light
Odour threshold:	Not applicable
pH:	Not applicable
Density:	Not applicable,
Melting point / freezing point:	Not applicable
Boiling point:	Not applicable
Solid/gas flammability:	Not flammable
Flammability/explosive limits:	Not flammable
Vapour density:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Vapour pressure:	Not applicable
Solubility in water:	Not available
Solubility in oil:	Not available
Partition coef (n-octanol/water):	Not applicable
Auto-ignition temperature:	Not inflammable
Decomposition temperature:	Not available
Viscosity:	Non applicable
Explosive properties:	Aucune
Oxidizing properties:	Not available

9.2. Other information

Miscibility:	Not applicable
Fat Solubility:	Not applicable
Conductivity:	Not applicable
Substance Groups relevant properties	Not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Avoid extreme temperatures
See storage conditions

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture: RACO PROBLOCK

- a) acute toxicity:
 - Test: LD50 - Route: oral - Species: Rat : >2000 mg/Kg
 - Test: LD50 - Route: dermal - Species: Rat : > 2000 mg/Kg
- b) skin corrosion/irritation:
 - Test: Skin Irritant - Route: dermal - Species: Rabbit : not irritant
- c) serious eye damage/irritation:
 - Test: Eye Irritant - Route: ocular - Species: Rabbit : not irritant
- d) respiratory or skin sensitisation:
 - Test: Skin Sensitization - Route: dermal - Species: Guinea Pig : Not sensitizing

Toxicological information of the active substance found in the mixture: **DIFENACOUM**

- a) acute toxicity:
 - Test: LD50 - Route: oral - Species: Rat : 1,8 - 2.6 mg/Kg
 - Test: LD50 - Route: dermal - Species: Rat : 20 - 63 mg/Kg
 - Test: LD50 - Route: inhalation - Species: Rat : 3,6 – 5,8µg/L

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as not available or not applicable:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

- a) Aquatic acute toxicity:
 - LC50 rainbow trout 0,064mg/L - Duration : 96h - Data on Difenacoum
- b) Bacteria toxicity:
 - No data available
- c) Terrestrial toxicity:
 - No data available

12.2. Persistence and degradability

Biodegradability (%) : No data available

12.3. Bioaccumulative potential

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Bioaccumulation (BCF) : No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None

PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible.

In so doing, comply with the local and national regulations currently in force.

This material and its container must be disposed of safely.

Dispose of packaging, remains of unused product and dead rodents in accordance with local regulations.

If required, consult a professional waste operator or local authority.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

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Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP)
Regulation (EU) n. 453/2010 (Annex I)

Restrictions related to the product or the substances contained according to Annex XVII
Regulation (EC) 1907/2006 (REACH) and subsequent modifications: None

Where applicable, refer to the following regulatory provisions :
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents)
1999/13/EC (VOC directive)
Regulation 689/2008: not applicable

15.2. Chemical safety assessment

Not available

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
CCNL - Appendix 1
Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
CSR: Chemical safety report
DNEL: Derived No Effect Level.
EC50:
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.

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INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
UN:	United Nations
WGK:	German Water Hazard Class.