



Safety Data Sheet dated 30/3/2018, version 1

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

### 1.1. Product identifier

Trade name: RACAN DIFE PASTE

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

Recommended use:

Rodenticide - Biocidal use

Amateur and professional use

Use in a secure manner. For amateur and non-professionals: use secure bait stations.

Professionals must use rodenticides in bait stations or other secure bait stations which provide the same level of security.

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:

LODI UK

Pensnett Trading Estate 3rd Avenue

West Midlands

DY6 7FD KINGSWINFORD United Kingdom

Tel. 00 44 1384 404242

Competent person responsible for the safety data sheet:

fds@lodi.fr

### 1.4. Emergency telephone number

National Poisons Information Service (NPIS)

Phone number : 0344 892 0111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



**Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.**

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

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H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

- P102 Keep out of reach of children.
- P103 Read label before use.
- P220 Keep/store away from food, drink and animal feedingstuffs.
- P260 Avoid breathing dust
- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves. (Professional only)
- P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P314 Get medical advice/attention if you feel unwell.
- P404+405 Store locked up in a closed container.
- P501 Dispose of contents/container in accordance with applicable regulations.

**Special Provisions:**

None

**Contains**

Difenacoum

**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 2: Hazards identification










## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not available

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 0.1% - < 0.25%	Butyl Hydroxytoluene	CAS: 128-37-0	 4.1/A1 Aquatic Acute 1 H400
			 4.1/C1 Aquatic Chronic 1 H410
25 ppm	Difenacoum	CAS: 56073-07-5 EC: 259-978-4	 3.1/1/Dermal Acute Tox. 1 H310  4.1/A1 Aquatic Acute 1 H400 M=10.  4.1/C1 Aquatic Chronic 1 H410 M=10.  3.1/1/Inhal Acute Tox. 1 H330  3.1/1/Oral Acute Tox. 1 H300  3.7/1B Repr. 1B H360  3.9/1 STOT RE 1 H372

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

In case of skin contact:

Remove contaminated clothing immediately and dispose off safely.

In case of: Dermal exposure, wash skin with water and then with water and soap.

In case of eye contact:

In case of eye exposure, rinse eyes with eyes-rinse liquid or water, keep eyes lids open at least 10 minutes.

In case of Ingestion:

Immediately consult a physician and show the label.

Do not give anything by mouth.

Do not induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Assure fresh air breathing.

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

Internal haemorrhage in case of ingestion.

This product contains an anticoagulant substance. If ingested, symptoms, which may be delayed, may include nosebleed and bleeding gums. In severe cases, there may be bruising and blood present in the faeces or urine.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Antidote: Vitamin K1 administered by medical/veterinary personnel only.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

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.

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.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

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#### 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.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

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

#### 6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food and drink and animal feeding stuffs  
Keap out of reach of children  
Store in original container, tightly closed  
Store in places prevented from the access of children, birds, pets and farm animals..  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Adequately ventilated premises.

#### 7.3. Specific end use(s)

None in particular

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Butyl Hydroxytoluene - CAS: 128-37-0  
ACGIH - TWA(8h): 2 mg/m<sup>3</sup> - Notes: (IFV), A4 - URT irr  
DNEL Exposure Limit Values  
Not available  
PNEC Exposure Limit Values  
RACAN DIFE PASTE  
Target: Fresh Water - Value: 0.06 µg/L  
Target: Microorganisms in sewage treatments - Value: 480 µg/L - Notes:: limite de solubilité  
Target: Freshwater sediments - Value: 2.51 mg/kg - Notes:: Equilibrium partitioning  
Target: Soil - Value: 0.877 mg/kg  
Target: Oral - Value: 7 µg/kg food - Notes:: Mammifères

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### 8.2. Exposure controls

Eye protection:

None

Protection for skin:

None

Protection for hands:

Wearing gloves is recommended.

Respiratory protection:

Not applicable

Thermal Hazards:

None

Environmental exposure controls:

Avoid release in the environment

Avoid release in watercourses and sewers.

Place baits in areas not submersible and weatherproof.

Prevent access to children, pets and non-target animals.

Hazardous to wildlife

Appropriate engineering controls:

None

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Red paste	EPA OPPTS 830.6303 - EPA OPPTS 830.6302	--
Odour:	Not characteristic	EPA OPPTS 830.6304	--
Odour threshold:	Not available	--	--
pH:	6.4	CIPAC MT 75.3	--
Melting point / freezing point:	- 16 °C (257K)	OECD 102	--
Initial boiling point and boiling range:	Not available	--	--
Flash point:	Non applicable ° C	--	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Little flammable	Regulation (EC) No. 440/2008, Annex, A.10 (solid)	--
Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	1.24	OECD 109	--
Solubility in water:	Not available	--	--

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Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	Not available	--	--
Oxidizing properties:	Not available	--	--

### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
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

None

### 10.4. Conditions to avoid

Stable under normal 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 product:

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a) acute toxicity:

Test: LD50 - Route: oral - Species: Rat : > 2000 mg/Kg - Source: OCDE 423

Test: LD50 - Route: dermal - Species: Rat : > 2000 mg/Kg - Source: OCDE 402

b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit : Non irritating - Source: OCDE 404

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c) serious eye damage/irritation:  
Test: Eye Irritant - Route: ocular - Species: Rabbit : Non irritating - Source: OCDE 405 - Notes: Faiblement irritant

d) respiratory or skin sensitisation:  
Test: Skin Sensitization - Route: dermal - Species: Guinea Pig : Non skin sensitizer - Source: OCDE 406

Toxicological information of the main substances found in the product:

Difenacoum - CAS: 56073-07-5

a) acute toxicity:

Test: LD50 - Route: dermal - Species: Rat : > 51.54 mg/Kg - Source: Assessment report Difenacoum Product Type 14 (rodenticide) 17 september 2009 - Notes: Females

Test: LD50 - Route: oral - Species: Rat : > 1.8 mg/Kg - Source: Assessment report Difenacoum Product-type 14 (Rodenticides) 17 September 2009

Test: LD50 - Route: Inhalation - Species: Rat : > 0.0036 mg/Kg - Duration: 4h - Source: Assessment report Difenacoum Product-type 14 (Rodenticides) 17 September 2009 - Notes: Head-only (S)

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- 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.

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## SECTION 12: Ecological information

### 12.1. Toxicity

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

Difenacoum - CAS: 56073-07-5

a) Aquatic acute toxicity:

Endpoint: LC50 Rainbow Trout = 0.064 mg/L - Duration h: 96

Endpoint: LC50 Daphnia magna = 0.52 mg/L - Duration h: 48

Endpoint: ErC50 Algae = 0.8 mg/L - Duration h: 72

c) Bacteria toxicity:

Endpoint: EC50 Pseudomonas putida > 2.3 mg/L - Duration h: 6

### 12.2. Persistence and degradability

Difenacoum - CAS: 56073-07-5

Biodegradability: Non-readily biodegradable - Test: Not available - Duration: Not available - %: Not available - Notes: Not available

### 12.3. Bioaccumulative potential

Difenacoum - CAS: 56073-07-5

Bioaccumulation: Not available Test: BCF - Bioconcentration factor 35645 - Duration: Not available - Notes: fish - calculated according to TGD method, Eq. 75, using estimated log Kow value of 7.6

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Bioaccumulation: Not available Test: BCF - Bioconcentration factor 9010 - Duration: Not available - Notes: fish - calculated according to the EPA EPIWIN BCF estimation program, using log Kow value of 7.6)

Bioaccumulation: Not available Test: BCF - Bioconcentration factor 477729 - Duration: Not available - Notes: earthworm - calculated according to TGD method, Eq. 82d, using estimated log Kow value of 7.6

### 12.4. Mobility in soil

Not available

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Other adverse effects

None

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## 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 available

### 14.3. Transport hazard class(es)

Not available

### 14.4. Packing group

Not available

### 14.5. Environmental hazards

Not available

### 14.6. Special precautions for user

Not available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not available

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## SECTION 15: Regulatory information

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

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

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

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013



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Regulation (EU) 2015/830  
 Regulation (EU) n. 286/2011 (ATP 2 CLP)  
 Regulation (EU) n. 618/2012 (ATP 3 CLP)  
 Regulation (EU) n. 487/2013 (ATP 4 CLP)  
 Regulation (EU) n. 944/2013 (ATP 5 CLP)  
 Regulation (EU) n. 605/2014 (ATP 6 CLP)  
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
 Regulation (EU) n. 2016/918 (ATP 8 CLP)  
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII  
 Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H300 Fatal if swallowed.

H360 May damage fertility or the unborn child if inhaled and in contact with skin.

H372 Causes damage to organs through prolonged or repeated exposure.

Hazard class and hazard category	Code	Description
Acute Tox. 1	3.1/1/Dermal	Acute toxicity (dermal), Category 1
Acute Tox. 1	3.1/1/Inhal	Acute toxicity (inhalation), Category 1
Acute Tox. 1	3.1/1/Oral	Acute toxicity (oral), Category 1
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

This safety data sheet has been completely updated in compliance to Regulation 2015/830.  
 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
STOT RE 2, H373	Calculation method

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

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.
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.
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
UN:	United Nations
WGK:	German Water Hazard Class.