



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 GRAIN

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 (blood) 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.
- P262 Do not get on skin.
- 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 CENTRE 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
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 eyes 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:

Do not induce vomiting.

Do not give anything by mouth.

Immediately consult a physician and show the label.

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.

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.

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.

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

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

Store in original container, tightly closed
Store in places prevented from the access of children, birds, pets and farm animals.
Keep away from food and drink and animal feeding stuffs.
Keep out of reach of children.
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 available
PNEC Exposure Limit Values
Not available

8.2. Exposure controls

Eye protection:
None
Protection for skin:
None
Protection for hands:
Wearing gloves is recommended.

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Respiratory protection:

Not applicable

Thermal Hazards:

None

Environmental exposure controls:

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

Place baits in areas not submersible and weatherproof.

Avoid release in watercourses and sewers

Avoid release in the environment

Hazardous to wildlife.

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Red grain	EPA OPPTS 830.6303 - EPA OPPTS 830.6302	--
Odour:	characteristic	--	--
Odour threshold:	Not available	--	--
pH:	6.7	CIPAC MT 75.3	--
Melting point / freezing point:	Not available	--	--
Initial boiling point and boiling range:	Not available	--	--
Flash point:	Not available	--	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not 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:	0.7 - 0.76	CIPAC MT 186	--
Solubility in water:	Not available	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--

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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

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

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 (Rodenticides) 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)

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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.

SECTION 12: Ecological information

12.1. Toxicity

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

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a) Aquatic acute toxicity:

Endpoint: LC50 Rainbow Trout = 0.064 mg/L - Notes: (on Difénacoum)

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

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

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.

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

Marine pollutant: No
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

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

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.

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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.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H310 Fatal in contact with skin.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
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]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
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.

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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.