



MATERIAL SAFETY DATA SHEET

FRAP GRANO

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

1.1. Identification of the formulation

Trade name : FRAP GRANO
Substance name : Difetialona 0.0025%
Registration N° : ES/MR(NA)-2018-14-00041
Product-type : Rodenticide
Formulation type : Grain- Wheat

1.2. Use of the substance or preparation

Relevant identified uses : Biocide product (PT14 – Rodenticide) - Bait used for the control of rodents.
Uses advised against : No further information is available.

1.3. Identification of the company

MYLVA S.A.
Via Augusta 48
08006- BARCELONA
Telephone: +34 934 15 32 26 Fax: +34 934 15 63 44
e-mail: mylva@mylva.eu

1.4. Emergency telephone number : (+34) 91 562 04 20 Toxicological information medical service

2. DANGER IDENTIFICATION

2.1. Classification according to R1272/2008 (CLP)

Classification of the substance or mixture according to Regulation (EC) 1272/2008 (EU-GHS/CLP)
STOT RE cat 2, H373 - Aquatic chronic cat 3, H412

See complete hazard statements in Section 16.

2.2. Label elements:

Regulation (EC) 1272/2008 (EU-GHS/CLP) Labelling



Hazard pictogram :

Signal word : **WARNING**

Hazard statements : H373: May cause damage to organs (blood) through prolonged or repeated exposure
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements : P102: Keep out of reach of children.
P103: Read label before use.
P260: Do not breathe dust
P273: Avoid release to the environment.
P280: Wear protective gloves.
P314: Get medical advice if you feel unwell.
P501 (For specialized professional personnel): Dispose of the contents of your container, such as deadrodents, through an authorized hazardous waste manager, in accordance with current regulations.
P501 (For professional and non-professional personal, general public): Eliminate the container and/or its content, as well as dead rodents, as hazardous waste in accordance with what is established in municipal ordinances.

Additional information : Not applicable.



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2.3. Other dangers

No further information is available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Composition

COMPOSITION	Difetialona	0.0025%
	Excipients	up to 100%

DANGEROUS COMPONENTS

CAS N°	NAME	CLASSIFICATION ACCORDING TO R1272/2008 (CLP)
104653-34-1	Difetialona	Acute Tox. 1, H300 - Acute Tox. 1, H310 – Acute Tox. 1, H330 – STOT RE 1, H372 (blood) – Aquatic Acute 1, H400 – Aquatic Acute 1, H410 – Repr. 1A, H360D

See complete hazard statements in Section 16.

4. FIRST AID MEASURES

4.1. First aid measures

GENERAL NOTES

In all cases of suspected exposure, medical assistance should be sought immediately. Show this data sheet. See antidotal therapy below. Note that poisoning symptoms may develop over the course of several days.

IN CASE OF SKIN CONTACT

Immediately remove all contaminated clothing.

Immediately rinse the affected area with plenty of water and soap, for at least 15 minutes. Seek medical attention if symptoms develop or if there's reason for concern. In all cases of doubt or if symptoms persist, seek medical attention.

IN CASE OF EYE CONTACT

Immediately rinse the affected eye with plenty of water or eye wash fluid for at least five minutes while separating the eyelids. Remove contact lenses if safe and easy to do so and continue rinsing. Avoid contaminated water coming into contact with the other eye or face. Seek medical attention if symptoms develop, or if there's reason for concern.

IN CASE OF INGESTION

If swallowed, DO NOT INDUCE VOMITING. Rinse out mouth with water if casualty is fully conscious. Seek medical attention if symptoms develop, or if there's reason for concern. In all cases of doubt or if symptoms persist, seek medical attention.

Self-protection of the first aider

If necessary, take the patient to a hospital and whenever possible, take the label or container.

UNDER ANY CIRCUMSTANCES, DO NOT LEAVE THE INTOXICATED PERSON ALONE.

4.2. Therapeutic measures

Clinical symptoms : nosebleed, gum bleed, spitting blood, multiple or large haematoma, generally sudden appearance of an unusual visceral pain.

Biological symptoms : blood in the urine, increase in coagulation time

4.3. Medical indications and special treatments that should be applied immediately:

Primary treatment is antidotal therapy rather than clinical assessment. Antidotal therapy: SPECIFIC vitamin K1 (phytomenadione). Analogues of Vitamin K1 (vitamin K3: menadione for example) are not very active and should not be used. The efficacy of the treatment should be followed by measuring the coagulation time. The treatment should not be discontinued until the coagulation time returns to normal and REMAINS normal. In case of serious intoxication, it may be necessary to administer, in addition to vitamin K1, blood or frozen fresh plasma or PPSB coagulant blood fraction transfusions.

IN CASE OF POISONING, CALL: Toxicological information medical service Telephone (+34) 91 562 04 20.



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5. FIRE- FIGHTING MEASURES

5.1. Extinguishing media

Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material. Foam or dry chemical fire extinguishing system is preferred to prevent excessive water run off.

5.2. Special risks during the fire extinction

The mixture is not known to produce hazardous decomposition products under normal storage conditions. Normal products of organic combustion will be released under conditions of pyrolysis or combustion.

5.3. Fire protection equipment

Wear breathing apparatus and appropriated protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protection equipment and emergency measures

Operators must observe precautions during handling and storage. See also section 8 of this material safety data sheet.

6.2. Measures to protect the environment

In case of major spillage in water, prevent entry into drains and waterways. If polluted water reaches drainage systems or water courses, immediately inform the competent authorities.

6.3. Cleaning method

Collect or sweep up the product into containers for recovery and disposal. After removal, clean contaminated area with water and detergent. Avoid the entry of washings into drains or waterways. See section 13 concerning disposal methods.

6.4. Reference to other sections

Not applicable.

7. HANDLING AND STORAGE

7.1. Safety use instructions

Read carefully the label before handling/use. Protective equipment: see section 8. Users should wash hands immediately after handling. When using, do not eat, drink or smoke

7.2. Special storage instructions

Store securely. Store in the original packaging. Keep away from food and out of reach of children.

7.1. Specific use

This product is a rodenticide bait used for the control of rodents.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Occupation exposure standards are not set for the active substance.

8.2. Exposure controls

Eye/face protection	: Eye protection is not necessary if using according to recommendations
Skin protection	: Specific protective clothing or other personal protective equipment is not required if using according to recommendations.
Hand protection	: It is recommended that operators wear disposable latex or similar gloves. Care should be taken when removing and disposing of gloves. Users should wash hands immediately after handling in all cases.
Respiratory protection	: Not applicable
Thermal hazards	: Not applicable

Environmental exposure controls

The product must to be manipulated and stored fulfilling the local legislation.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Physical state	: Grain- Wheat
Colour	: Red
Odour	: Cereal odour
Flammability	: Not highly flammable
pH	: 7.21
Water solubility	: Not miscible
Oxidising properties	: Does not have oxidising properties
Explosivity	: Does not have explosive properties

9.2. Other information

No additional information.

10. STABILITY AND REACTIVITY

10.1. Chemical reactivity

The mixture is not known to undergo hazardous reactions under normal handling conditions.

10.2. Chemical stability

The mixture is stable under normal ambient conditions.

10.3 Hazardous reactions

The mixture is not known to undergo hazardous reactions in contact with other substances.

10.4. Conditions to be avoided

The mixture is not known to undergo hazardous reactions under normal handling conditions.

10.5. Materials to avoid

The mixture is not known to undergo hazardous reactions under normal handling conditions.

10.5. Hazardous decomposition products

The mixture is not known to produce hazardous decomposition products under normal storage conditions. Normal products of organic combustion will be released under conditions of pyrolysis or combustion.

11. TOXICOLOGICAL INFORMATION

11.1. Information about toxicological effects:

ACUTE TOXICITY

Studies conducted on the mixture

LD50 oral (Rat): > 5000 mg/kg

LD50 dermal (Rabbit): > 2000 mg/kg

LC50 Inhalation: Not applicable.

Eye Irritation: Not irritant.

Skin Irritation: Not irritant.

Sensitization: Not sensitising

CHRONIC TOXICITY:

Studies conducted on active substance *Diféthialon*:

LOAEL (Rat - 90 days): 4 µg/kg bw/day - NOAEL (Rat - 90 days): 2µg/kg bw/day

LOAEL (Dog - 90 days): 20 µg/kg pc/day - NOAEL (Dog - 90 days): 10 µg/kg bw/day

The active substance is classified as dangerous and may cause serious damage to health by prolonged exposure.

CARCINOGEN DATA:

No data available for the mixture

According to studies performed on active substance *Diféthialon* : No evidence of carcinogenicity



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MUTAGENIC DATA:

No data available for the mixture

According to studies performed on active substance *Diféthialon* : No in vivo or in vitro evidence of mutagenicity.

REPRODUCTIVE TOXICITY:

No data available for the mixture

According to studies performed on active substance *Diféthialon* :

According to studies: No observed adverse effects.

RAC conclusion: This substance is considered to be potentially toxic for foetal development based on human teratogenicity data available for warfarin.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptor ingredients.

11.2.2. Other information

Not known.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

According to studies performed on active substance *Diféthialon* :

AQUATIC ACUTE TOXICITY

LC50 Fishes (96 h): 51 µg/L - NOEC: 22µg/L (*Oncorhynchus Mykiss*)

CbE50 Algae (72 h.): 65 µg/L – NOEC: 32 µg/L (*Selenastrum capricornutum*)

CE50 Daphnis (48 h.): 4.4 µg/L - NOEC: 3µg/L (*Daphnia magna*)

The substance is very toxic to aquatic organisms.

TOXICITY FOR TERRESTRIAL SPECIES

Acute toxicity LC50 Earthworm (14 days) (*Eisenia foetida*): > 1000 mg/kg de sol

BIRD TOXICITY

Acute toxicity: LD50: 0.264 mg/kg bw (*Colinus virginianus*)

Short term dietary (30 days): LC50: 0.56 mg/kg of food (*Colinus virginianus*)

12.2 Persistence and degradability

The substance is not considered as easily biodegradable.

Degradation pathway and rate in soil: DT50: between 417 and 976 days

Degradation pathway and rate in water: Hydrolysis DT50: 175 days (pH 7); >1 year (pH 5) – 11.2% degradation after 30 days - Photolysis DT50: between 20 and 60 minutes

12.3 Bioaccumulative potential

Log Pow: 6.29

Bioconcentration factor (BCF) (fishes): 39974 (calculated) – High bioaccumulative potential

12.4 Mobility in soil

The substance Difethialone is not mobile in soil.

12.5. Results of PBT and vPvB assessment

PBT potential.

12.6 Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptor ingredients.

12.7. Other adverse effects

Up to this date no other adverse effects are known.



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13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product

Product will be disposed of according to applicable legislation and regulations, if necessary, after consulting an authorised waste disposal company. It is recommended that the waste product is stored in specially designated spaces or destroyed in incineration facilities by the waste disposal companies. Care should be taken to ensure that disposal methods do not expose the preparation to non-target wild or domestic animals or pets. Dispose of according to national/local law. Do not release into drains or waterways. Do not contaminate water, food or feed by storage or disposal. Do not contaminate ground, waterbodies or watercourses with chemicals or used containers. Refer to local waste and environmental regulations.

Packaging

The empty container should not be used for any other purpose and should be disposed of considering the comments above. Do not reuse or refill the container.

14. TRANSPORT INFORMATION

14.1. UN number

This product is not classified as dangerous goods according to these regulations.

14.2. UN proper shipping name

This product is not classified as dangerous goods according to these regulations.

14.3. Transport hazard class(es)

This product is not classified as dangerous goods according to these regulations.

14.4. Packing group

This product is not classified as dangerous goods according to these regulations.

14.5. Environmental hazards

This product is not classified as dangerous goods according to these regulations.

14.6. Special precautions for user

This product is not classified as dangerous goods according to these regulations.

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

Not applicable.

15. NORMATIVE INFORMATION

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

This safety data sheet has been developed in accordance with ANNEX II of Regulation (EC) No 1907/2006, as amended by Article 59 (5) of Regulation (EC) No 1272/2008, Regulation (EU) No 453 / 2010 laying down the requirements for the preparation of the safety data sheets used to provide information on chemical substances and mixtures in the European Union and as amended by Commission Regulation (EU) 2015/830 of 28 May 2015 Amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012.

15.2. Chemical safety assessment

Chemical safety assessment is not applicable.

16. FURTHER INFORMATION

Hazard statements of the mentioned substances in section 3 which are not related to product classification:

Classification according to Regulation (EC) 1272/2008 [EU-GHS/CLP]

H300 Fatal if swallowed.



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H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Abbreviations:

CLP: Classification, Labelling and Packaging

LD50: Lethal dose 50%

LC50: Lethal concentration 50%

LOAEL: Lowest observable adverse effect level

NOEL: No observable level effect

NOEC: No observed effect concentration

EC50: Effective concentration 50%

PBT: Persistent, bioaccumulative, toxic

VPvB: Very Persistent, very Bioaccumulative

ADR: Agreement concerning the international carriage of Dangerous goods by Road

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

Recommended use

Read the label carefully before using this product. Follow instructions of use in order to prevent risks for people and the environment.

Additional information

The information published here is based on the knowledge and good work of the safety data sheets of the raw materials manufacturers. Therefore, it cannot be interpreted as a guarantee for any specific property of the product. As consequence, it is the user's exclusive responsibility to decide whether the information provided is appropriate or useful.

This updated version of the Material safety data sheet replaces previous versions.

Other data

Edition / revision date: June 2021

Replaces: -

Indication of changes: -