

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 2_6_1 Issue date: 3/23/2015 Revision date: 10/21/2020 Supersedes version of: 11/8/2017 Version: 2.3

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

1.1. Product identifier	
Product form Trade name	: Mixture : Raco
UFI	: PWD5-THHQ-RT5P-641P
Type of product Product group	Rodenticides,Biocidal products (e.g. Disinfectants, pest control)Biocide

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

1.2.1. Relevant identified uses

Main use category Use of the substance/mixture

Use of the substance/mixture

: Professional use

- : Mus musculus, Rattus norvegicus, Rattus rattus
- : Rodenticides
 - : Pesticides, non-agricultural (Biocides)

1.2.2. Uses advised against

Function or use category

No additional information available

1.3. Details of the supplier of the safety data sheet

Armosa Tech
Rue des Tuiliers 1
4480 Engis - Belgique
T +32 (0)85 519 519 - F +32 (0)85 519 510
msds@armosa.tech - www.armosa.tech

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures/	Substances: SDS EU > 2015: According to Regulation (EU) 2015/830,
2020/878 (REACH Annex II)	

Reproductive toxicity, Category 1BH360DSpecific target organ toxicity - Repeated exposure, Category 2H373Full text of H-statements: see section 16H373

Adverse physicochemical, human health and environmental effects

May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLP)	GHS08 : Danger
Hazard statements (CLP)	: H360D - May damage the unborn child.
	H373 - May cause damage to organs (blood) through prolonged or repeated exposure (oral).

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Precautionary statements (CLP)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust. P280 - Wear protective gloves. P308+P313 - IF exposed or concerned: Get medical advice/attention. medical advice. P314 - Get medical advice/attention if you feel unwell. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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2.3. Other hazards

This substance meets the PBT criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PROPYLENE GLYCOL substance with national workplace exposure limit(s) (LV)	CAS-No.: 57-55-6 EC-No.: 200-338-0 REACH-no: 01-2119456809- 23	0.7	Not classified
Difenacoum (Active substance (Biocide))	CAS-No.: 56073-07-5 EC-No.: 259-978-4 EC Index-No.: 607-157-00-X	0.005	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation:dust,mist), H330 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits		
Name	Product identifier	Specific concentration limits
Difenacoum (Active substance (Biocide))	CAS-No.: 56073-07-5 EC-No.: 259-978-4 EC Index-No.: 607-157-00-X	(0 <c 0.02)="" 2,="" <="" h373<br="" re="" stot="">(0.003 ≤C ≤ 100) Repr. 1B, H360D (0.02 ≤C ≤ 100) STOT RE 1, H372</c>

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4. I. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Not relevant.
First-aid measures after skin contact	: Rinse immediately with plenty of water. Wash with soapy water.
First-aid measures after eye contact	: Rinse with water while holding the eyes wide open.

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First-aid measures after ingestion	: Rinse mouth out with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label. Contact a veterinary surgeon in case of ingestion by a pet.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects	: 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

Antidote: Vitamin K1.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam.Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Hazardous decomposition products in case of fire	This product is not much flammable.Toxic fumes may be released.	
5.3. Advice for firefighters		
Firefighting instructions Protection during firefighting	 Use water spray or fog for cooling exposed containers. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Equip cleanup crew with proper protection.	
6.1.1. For non-emergency personnel		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling Hygiene measures	 Avoid all unnecessary exposure. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	
Storage conditions	Store in a dry, cool and well ventilated place. Keep the container closed and away from direct sunlight. Store in places prevented from the access of children, birds, pets and farm animals.
Maximum storage period	: 2 year
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment



8.2.2.1. Eye and face protection

None under normal conditions

8.2.2.2. Skin protection

None under normal conditions

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Wear protective chemical resistant gloves during product handling phase (EN374).

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves	Nitrile rubber (NBR), Polyvinylalcohol (PVA)				EN ISO 374-1

8.2.2.3. Respiratory protection

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Avoid release to the environment.

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical prop	berties	
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: red.	
Appearance	: Grains.	
Odour	: Characteristic.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not applicable	
Boiling point	: Not available	
Flammability	: Non flammable.	
Explosive limits	: Not applicable	
Lower explosive limit (LEL)	: Not applicable	
Upper explosive limit (UEL)	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: Not available	
pH	: 6.4	
pH solution	: Not available	
Viscosity, kinematic	: Not applicable	
Solubility	: Partially soluble.	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50 °C	: Not available	
Density	: Not available	
Relative density	: Not applicable	
Relative vapour density at 20 °C	: Not applicable	
Particle size	: Not available	
Particle size distribution	: Not available	
Particle shape	: Not available	
Particle aspect ratio	: Not available	
Particle aggregation state	: Not available	
Particle agglomeration state	: Not available	
Particle specific surface area	: Not available	

Particle dustiness

: Not available

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1. Information on hazard classes as defined in	n Regulation (EC) No 1272/2008
Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified (Not relevant) Anti-coagulant
Raco	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Difenacoum (56073-07-5)	
LD50 oral rat	≤ 5 mg/kg
LD50 dermal rat	≤ 50 mg/kg
LC50 Inhalation - Rat	0.01627 – 0.02074 mg/l/4h
PROPYLENE GLYCOL (57-55-6)	
LD50 oral rat	≥ 2000 mg/kg
LD50 dermal rat	> 2000
LC50 Inhalation - Rat	317 mg/l
· · · · · · · · · · · · · · · · · · ·	Not classified pH: 6.4

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Serious eye damage/irritation	: Not classified
	pH: 6.4
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (blood) through prolonged or repeated exposure (oral).
Difenacoum (56073-07-5)	
STOT-repeated exposure	Causes damage to organs (blood) through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Raco	

No additional information available

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute) Hazardous to the aquatic environment, long-term :	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. This product contains components which are toxic to fauna. Not classified Not classified
(chronic)	
Difenacoum (56073-07-5)	
LC50 - Fish [1]	0.042 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	0.25 mg/l Daphnia magna
ErC50 algae	0.04 mg/l
PROPYLENE GLYCOL (57-55-6)	
LC50 - Fish [1]	4600 mg/l
EC50 - Crustacea [1]	4850 mg/l
12.2. Persistence and degradability	
Raco	
Persistence and degradability	Not readily biodegradable.
12.3. Bioaccumulative potential	
Raco	
Bioaccumulative potential	Potentially bioaccumulable.
PROPYLENE GLYCOL (57-55-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.07 – -0.9

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12.4. Mobility in soil		
Raco		
Ecology - soil	Low mobility (soil).	
12.5. Results of PBT and vPvB assessment		
Raco		
This substance meets the PBT criteria of REACH regulation, annex XIII		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		

Other adverse effects Additional information

- : To protect birds/wild mammals remove spillages : Avoid release to the environment.
- SECTION 13: Disposal considerations

 13.1. Waste treatment methods

 Waste treatment methods

 Product/Packaging disposal recommendations

 : Dispose of contents/container in accordance with licensed collector's sorting instructions.

 : At the end of the treatment, dispose the uneaten bait and the packaging in accordance with local requirements. Dispose of this material and its container at hazardous or special waste collection point. Once treatment is complete, dispose of the bait that has not been eaten and the packaging in an appropriate collection circuit. Packaging and leftovers (consumed or not) of rodenticides are considered hazardous waste. Removal and destruction must be

carried out by a specialised or approved company.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
Transport hazard class(es) (ADR)	: Not applicable
Transport hazard class(es) (IMDG)	: Not applicable

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Transport hazard class(es) (IATA)	: Not applicable
Transport hazard class(es) (ADN)	: Not applicable
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

No data available

No data available

No data available

No data available

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Other information, restriction and prohibition
regulations: Regulation (EU) No 528/2012 concerning the making available on the market and use of
biocidal products. 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, Authorisation and Restriction of Chemicals (REACH).

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This product contains biocidal products Type of product (Biocide) Authorisation number Contains	 : 14 - Rodenticides : BE2012-0010 : Difenacoum (0.005 %)
15.1.2. National regulations	
Belgian National Regulations	: Subject to Biocides closed circuit.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information	on
Other information	DISCLAIMER OF LIABILITY The information in this folder was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This folder was prepared and is to be used only for this product. If the product is used as a component in another product, this folder information may not be applicable. The contents and format of this SDS are in accordance with Regulation (EC) N° 453/2010 of the European Parliament and of the Council. Use biocides and pesticides safely. Always read the label and product information before use.

Full text of H- and EUH-statements		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1	
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1	
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Repr. 1B	Reproductive toxicity, Category 1B	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
H300	Fatal if swallowed.	
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.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.