

Revision nr. 11 Dated 13/09/2022 Printed on 13/09/2022 Page n. 1/15 Replaced revision:10

BRODIM PASTA

	Safety	Data S	heet		
According to Annex II t			78 and to Annex II to UK REA	CH	
C C	0				
SECTION 1. Identification of the subs	stance/mix	ture and o	f the company/unde	rtaking	
1.1. Product identifier					
Product name	BRODIM PAS	ТА			
Registration n°	IT/2014/00214				
UFI :	7Q10-20E1-P0	00K-W81P			
1.2. Relevant identified uses of the substance or m	ivturo and uco	a adviced ear	inct		
			e (trained professional inclu	ıded).	
	•				
Identified Uses	Industrial		Professional	Consumer	
Rodenticide	-		~	-	
Uses Advised Against					
All uses other than those recommended					
1.3. Details of the supplier of the safety data sheet					
Name	COLKIM S.r.I.				
Full address	Via Piemonte	,			
District and Country	40064 OZZAN Italia	O EMILIA (BC))		
	Tel. 051 / 7994	445			
	Fax 051 / 797	555			
e-mail address of the competent person					
responsible for the Safety Data Sheet	info@colkim.				
Supplier:	COLKIM S.r.I.	- Via Piemon	te, 50 - 40064 OZZANO E. (E	80)	
1.4. Emergency telephone number					
For urgent inquiries refer to 118					
Contact a poison control center:					
Nane		City	Address	Zip code	Phone

Nane	City	Address	Zip code	Phone
CAV "Osp. Pediatrico Bambino Gesù"	Roma	P.zza Sant`Onofrio, 4	00165	06 68593726
Az. Osp. Univ. Foggia	Foggia	V.le Luigi pinto, 1	71122	0881 732326
Az. Osp. "A. Cardarelli"	Napoli	Via A. Cardarelli, 9	80131	081 7472870
CAV Policlinico "Umbero I"	Roma	V.le del policlinico, 155	00161	06 49978000
CAV Policlinico "A. Gemelli"	Roma	Largo Agostino Gemelli, 8	00168	06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica	Firenze	Largo Brambilla, 3	50134	055 7947819
CAV Centro Nazionale di Informazione Tossicologica	Pavia	Via Salvatore Maugeri, 10	27100	0382 24444
Osp. Niguarda Ca' Granda	Milano	P.zza Ospedale Maggiore,3	20162	02 66101029
Azienda Ospedaliera Papa Giovanni XXII	Bergamo	P.zza OMS, 1	24127	800883300
CAV centro antiveleni Verona	Verona	Piazzale Aristide Stefani,1	37126	800011858

SECTION 2. Hazards identification



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2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:	
Reproductive toxicity, category 1A	H360D
Specific target organ toxicity - repeated exposure, category 2	H373

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

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Danger

Hazard statements:

Signal words:

H360D
H373

May damage the unborn child. May cause damage to organs (blood) through prolonged or repeated exposure.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P308+P313	IF exposed or concerned: Get medical advice / attention.
P501	Dispose of contents / container in accordance with national regulation
	•

Contains: BRODIFACOUM

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:



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Identification x = Conc. % Classification (EC) 1272/2008 (CLP) **CALCIUM HYDROXIDE** INDFX - $0,35 \le x < 0,4$ Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335 EC 215-137-3 CAS 1305-62-0 REACH Reg. 01-2119475151-45 BRODIFACOUM INDEX x = 0,005Repr. 1A H360D, Acute Tox. 1 H300, Acute Tox. 1 H310, Acute Tox. 1 H330, STOT RE 1 H372, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10 EC 259-980-5 Repr. 1A H360D: ≥ 0,003%, STOT RE 1 H372: ≥ 0,02%, STOT RE 2 H373: ≥ 0.002% CAS 56073-10-0 LD50 Oral: >0,4 mg/kg, LD50 Dermal: >3,2 mg/kg, STA Inhalation vapours: 0,05 mg/l REACH Reg. 607-172-00-1 DENATONIUM BENZOATE CAS. 3734-33-6 x = 0.001Skin Irrit.2 H315, Eye Dam.1 H318, Aquatic Chronic.3 H412, Acute Tox.4 H302, Acute Tox.4 H332 CE 223-095-2 INDEX. -Nr. Reg.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Ingestion of excessive quantities may cause nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding

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

If ingested, administer vitamin K1 orally or intramuscularly as indicated in the case of an overdose of bishydroxycoumarin. Repeat as needed based on monitoring of prothrombin times

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture



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HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

I roditori morti devono essere rimossi dalla zona del trattamento ad intervalli frequenti e le carcasse devono essere smaltite secondo le norme vigenti. Le esche devono essere disposte in modo da minimizzare il rischio di ingestione da parte di altri animali non bersaglio e devono essere fissate in modo che non possano essere trascinate via. Rimpiazzare via via le esche consumate ed aumentare la quantità delle stesse se necessario. Le esche devono essere utilizzate in appositi contenitori idonei a consentire l'accesso ai soli roditori come erogatori, mangiatoie, stazioni, fissati in modo da minimizzare il rischio di ingestione dell'esca da parte di animali non target.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)



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Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ITA GBR EU	Italia United Kingdom OEL EU		EH40/2005 Worl Directive (EU) 20 Directive (EU) 20	022/431; Directive 017/2398; Directive	imits (Fourth Edit e (EU) 2019/1831 /e (EU) 2017/164	ion 2020) ; Directive (EU) 20 ; Directive 2009/10 /EC; Directive 91/2	61/EU; Directiv		
	TLV-ACGIH		ACGIH 2021						
	ANEDIOL I Limit Value								
Type		Country	TWA/8h		STEL/15min		Remarks Observati		
			mg/m3	ppm	mg/m3	ppm			
WEL		GBR	10					Particula	tes
Predicted no	o-effect concentration	- PNEC							
Normal valu	e in fresh water				260	mg/l			
Normal valu	e in marine water				26	mg/l			
Normal valu	e for fresh water sedi	ment			572	mg/k	g		
Normal valu	e for marine water se	diment			57,2	mg/k	g		
Normal valu	e for water, intermitte	nt release			183	mg/l			
Normal valu	e of STP microorgani	sms			20000	mg/l			
Normal valu	e for the terrestrial co	mpartment			50	mg/k	g		
Health - D	erived no-effect le	evel - DNEL / I	DMEL						
		Effects on consumers				Effects on workers			
Route of exp	posure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				10 mg/m3	50 mg/m3		*	10 mg/m3	168 mg/m3
CALCIUM	HYDROXIDE								
	Limit Value	O anna fan i	T\A/A (0h				Deveeder	/	
Туре		Country	TWA/8h		STEL/15min		Remarks Observati		
			mg/m3	ppm	mg/m3	ppm			
VLEP		ITA	1		4		RESP		
WEL		GBR	5				INHAL		
WEL		GBR	1		4		RESP		
OEL		EU	1		4		RESP		
			5						
TLV-ACGIH	o-effect concentration	- PNEC							
					49	mg/l			
Predicted no	e in fresh water								
Predicted no Normal valu	e in fresh water e in marine water				32	mg/l			
Normal valu Normal valu		nt release			32 49	mg/l mg/l			



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Normal value for the terrestrial compartment				1080	mg	/kg		
Health - Derived no-effec	t level - DNEL / I	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	4 mg/m3		1 mg/m3		4 mg/m3		1 mg/m3	
BRODIFACOUM								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		0,002					ACGIH 2	011
Predicted no-effect concentration	ion - PNEC							
Normal value in fresh water				4	mg	//		
Normal value for fresh water se	odimont			43	mg	/ka		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between engineering controls can be highly effective in protecting workers and will typica provide this high level of protection. The basic types of engineering controls are: way a job activity or process is done to reduce the risk. Enclosure and/or isolation hazard "physically" away from the worker and ventilation that strategically "adds" Ventilation can remove or dilute an air contaminant if designed properly. The de particular process and chemical or contaminant in use. Employers may need employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexp Correct fit is essential to obtain adequate protection. Provide adequate ventilation contaminants generated in the workplace possess varying "escape" velocities wh of fresh circulating air required to effectively remove the contaminant.	ally be independ Process control n of emission so and "removes" esign of a ventila to use multiple posure exists, w on in warehouse	dent of worker interactions to s which involve changing the burce which keeps a selected air in the work environment. ation system must match the types of controls to prevent ear SAA approved respirator. or closed storage areas. Air rmine the "capture velocities"			
	Type of Contaminant:		Air Speed:			
8.2.1 APPROPRIATE	solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)				
ENGINEERING CONTROLS	aerosols, fumes from pouring operations, intermittent container filling, low sp transfers, welding, spray drift, plating acid fumes, pickling (released at low veloci active generation)	0.5-1 m/s (100-200 f/min.)				
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crus discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)				
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (release velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)				
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end				
	1: Room air currents minimal or favourable to capture		g room air currents			
	2: Contaminants of low toxicity or of nuisance value only		nants of high toxicity			
	3: Intermittent, low production. 4: Large hood or large air mass in motion		duction, heavy use			
		4. Offidir 110				



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	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.
8.2.2 PERSONAL PROTECTION	
Eye and face protection	Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: - frequency and duration of contact - chemical resistance of glove material - glove thickness deuterin.
	 - dexterity. Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). - When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. - When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. - Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. - Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: - Excellent when breakthrough time > 480 min. - Good when breakthrough time > 20 min. - Fair when glove material degrades
	For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.
	Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: -Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. -Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	Overalls.P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Environmental	Emissions from manufacturing processes, including those from ventilation equipment, should be controlled for compliance with
exposure controls	environmental protection legislation. Product residues must not be discharged without control into wastewater or water



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courses.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance Colour Odour Odour threshold	paste green sweetish not available	Method:OPPTS 830.6303 Method:OPPTS 830.6302 Method:OPPTS 830.6304 Reason for missing data:Determination not
Melting point / freezing point	not available	required for safe use of the product Reason for missing data: Determination not
Initial boiling point	not available	required for safe use of the product Reason for missing data: Determination not required for safe use of the product Reason for missing data: Determination not required for safe use of the product
Flammability	not applicable	Reason for missing data:The product is not flammable
Lower explosive limit	not applicable	Reason for missing data:Not applicable to solids
Upper explosive limit	not applicable	Reason for missing data:Not applicable to solids
Flash point	not available	Reason for missing data:Not applicable to solids
Auto-ignition temperature	not applicable	Reason for missing data:Not applicable to solids
Decomposition temperature	not available	Reason for missing data:The mixture is not self-reactive
pH Kinematic viscosity	7,11 not applicable	Method:OECD test 122 Reason for missing data:Not applicable to solids
Dynamic viscosity	not available	Reason for missing data:Not applicable to solids
Solubility	immiscible with water	
Partition coefficient: n-octanol/water	not applicable	Reason for missing data: Not determinable for mixtures
Vapour pressure	not available	Reason for missing data:Determination not required for safe use of the product
Density and/or relative density Relative vapour density	1,122 g/cm3 not applicable	Method:OECD test 109 Reason for missing data:Not applicable to solids
Particle characteristics		30103
Median equivalent diameter		
Remark:	The product is presented as a single compact block	
9.2. Other information		
9.2.1. Information with regard to physical haz	ard classes	
Information not available		

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)

1,85 % - 20,77 g/litre



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SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

BRODIFACOUM

Stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

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Avoid exposure to: light,heat.

10.5. Incompatible materials

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Incompatible with: strong oxidants.

10.6. Hazardous decomposition products

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May develop: toxic fumes.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available



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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

CALCIUM HYDROXIDE

LD50 (Dermal): LD50 (Oral):

BRODIFACOUM

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

May damage the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

> 2500 mg/kg Coniglio > 2000 mg/kg Ratto - femmina

> 3,2 mg/kg > 0,4 mg/kg > 3,05 mg/l/4h



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May cause damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

BRODIFACOUM	
LC50 - for Fish	0,042 mg/l/96h Rainbow trout
EC50 - for Crustacea	25 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	4 mg/l/72h Selenastrum capricornutum
CALCIUM HYDROXIDE	
LC50 - for Fish	457 mg/l/96h Gasterosteus aculeatus
EC50 - for Algae / Aquatic Plants	18457 mg/l/72h Pseudokirchneriella subcapitata
12.2. Persistence and degradability	
BRODIFACOUM	
NOT rapidly degradable	
CALCIUM HYDROXIDE	
Solubility in water	1000 - 10000 mg/l
12.3. Bioaccumulative potential	
BRODIFACOUM	
Partition coefficient: n-octanol/water	6,12
BCF	35134 fish
12.4. Mobility in soil	

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.



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12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

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. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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



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Seveso Category - Directive 2012/18/EU: None Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product 3 - 40 Point Contained substance 75 Point Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%. Substances subject to authorisation (Annex XIV REACH) None Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None Substances subject to the Rotterdam Convention: None Substances subject to the Stockholm Convention: None Healthcare controls Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected. 15.2. Chemical safety assessment A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:



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Repr. 1A	Reproductive toxicity, category 1A
Acute Tox. 1	Acute toxicity, category 1
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H360D	May damage the unborn child.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)



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- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified: 01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16.