Rev. nr. 1

Page n. 1/9

Rev date: 07/02/2020

**RATTO MORTO PASTA** 

Printed on 07/02/2020

# Safety Data Sheet

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

#### 1.1. Product identifier

Code: RATTO MORTO PASTA Product Name: RATTO MORTO PASTA

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use READY TO USE RODENTICIDE BAIT

#### 1.3. Details of the supplier of the safety data sheet

Name Full address District and Country Deeval International Ltd Unit 45, 1st Avenue, Deeside Industrial Park CH5 2NU, Flintshire, UK tel. +44 1244 833 951 - fax. //

e-mail address of the competent person responsible for the Safety Data Sheet

info@deeval.co.uk

## 1.4. Emergency telephone number

For urgent inquiries refer to: National Poisons Information Service (www.npis.org)

#### **SECTION 2. Hazards identification**

#### 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 2015/830.

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:

Specific target organ toxicity - repeated exposure,	H373
category 2	

May cause damage to organs (Blood) 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:

Signal words: Warning Hazard statements: H373 May cause damage to organs (Blood) through prolonged or repeated exposure. Restricted to professional users. Precautionary statements: P102 Keep out of reach of children. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor. P308+P313 IF exposed or concerned: Get medical advice / attention. P501 Dispose of contents and container in special waste according to national regulations. Contains: **BRODIFACOUM TECHNIC** 

2.3. Other hazards

PBT substances contained: BRODIFACOUM TECHNIC

## **SECTION 3. Composition/information on ingredients**

3.1. Substances Information not relevant

Rev. nr. 1

Rev date: 07/02/2020

# RATTO MORTO PASTA

Printed on 07/02/2020

Page n. 2/9

#### 3.2. Mixtures

Identification	x = Conc. %	Classification 1272/2008 (CLP)
CALCIUM HYDROXIDE CAS 1305-62-0 EC 215-137-3 INDEX -	0,35 ≤ x < 0,4	Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335
TRIETHANOLAMINE 99% CAS 102-71-6 EC 203-049-8 INDEX - Reg. no. 01-2119486482-31	0,3 ≤ x < 0,35	Substance with a community workplace exposure limit.
BRODIFACOUM TECHNIC CAS 56073-10-0 EC 259-980-5 INDEX 607-172-00-1	0,002 ≤ x < 0,003	Repr. 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

## **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids well. Consult a physician immediately.

SKIN: Take off contaminated clothing. Take a shower immediately. Consult a physician immediately.

INGESTION: Give as much water to drink as possible. Consult a physician immediately. Do not induce vomiting unless expressly authorized by your doctor.

INHALATION: Call a doctor immediately. Take the person out into fresh air, away from the accident site. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

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

Contains anticoagulant. Antidote: Vitamin K1 to be administered only by a doctor / veterinarian. For symptoms and effects due to the substances contained, see chap. 11.

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

Not available.

## **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. UNSUITABLE EXTINGUISHING EQUIPMENT Not defined.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Avoid breathing combustion products.

## 5.3. Advice for firefighters

GENERAL INFORMATIONS

Cool the containers with jets of water to avoid product decomposition and the development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water that must not be discharged into the sewers. Dispose of contaminated water used for extinguishing and the residue of the fire according to current regulations. EQUIPMENT

Normal clothing for firefighting, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

## **SECTION 6.** Accidental release measures

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

Stop the leakage if there is no danger.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for the workers and for emergency interventions.

#### 6.2. Environmental precautions

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

Rev. nr. 1

Page n. 3/9

Rev date: 07/02/2020

# **RATTO MORTO PASTA**

Printed on 07/02/2020

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

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. 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 ventilated. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information regarding 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.

#### 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 out of reach of children and pets. Keep away from food, drink and animal feed. Keep containers away from any incompatible materials, see section 10 for details.

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

Not available.

## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

BRG	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DEO	Deutschiand	MAR-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
EU	OEL EU	Directive 2009/161/UE; Directive 2006/15/CE; Directive 2004/37/CE; Directive 2000/39/CE; Directive 91/322/CEE.
	TLV-ACGIH	ACGIH 2016

## CALCIUM HYDROXIDE

Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15mir	1	
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	5				
VLA	ESP	5				
VLEP	FRA	5				
WEL	GBR	5				
TLV	GRC	5				
TLV	NOR	5				
OEL	EU	1		4		RESPIR.
OEL	EU	5				
TLV-ACGIH		5				

TRIETHANOLAM Threshold Limit					
Туре	Country	TWA/8h		STEL/15min	1
		mg/m3	ppm	mg/m3	ppm
OEL	EU	5			
Predicted no-effect concentration - PNEC					

# **RATTO MORTO PASTA**

Rev. nr. 1 Rev date: 07/02/2020

Printed on 07/02/2020 Page n. 4/9

Normal value in fresh wa	0,32	mg	g/l					
Normal value in marine water					mg	g/l		
Normal value for fresh wa	1,7	mg	g/kg					
Normal value for marine	water sediment			0,17	mg	g/kg		
Normal value for water, intermittent release				5,12	mg	g/l		
Normal value of STP microorganisms				10	mg	g/l		
Normal value for the terrestrial compartment				0,151	mg	g/kg		
Health - Derived no-	effect level - DNE	L/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
Oral				13 mg/kg/d				1
Inhalation				1,25 mg/m3				5 mg/m3

Skin	3,1 mg/kg/d	6,3 mg/kg/d

BHT					
Threshold Limit Value					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	nnm	mg/m3	nnm
		iiig/iii5	ppm	mg/m5	ppm
МАК	DEU	10		40	
VLEP	FRA	10			
WEL	GBR	10			

Туре	Country	TWA/8h		STEL/15mir	1			
,,	,							
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	0,002						
TLV-ACGIH		0,002						
Predicted no-effect conce	entration - PNEC							
Normal value in fresh wa	ter			0,00004	mg	ı/I		
Normal value for fresh wa	ater sediment			0,043	mg	ı/kg		
Normal value of STP mic	roorganisms			0,0058	mg	ı/I		
Health - Derived no-	effect level - DNE	L/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
Oral	0,000033		0,0000033					

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.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well ventilated through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

# Deeval International Ltd Rev. nr. 1 Rev date: 07/02/2020 Printed on 07/02/2020 Printed on 07/02/2020 Page n. 5/9

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a mask with a type B filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited.

In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open-circuit compressed air breathing apparatus (ref. Standard EN 137) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of respiratory protection device, refer to EN 529 standard.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## **SECTION 9.** Physical and chemical properties

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

Initial boiling pointNoBoiling rangeNoFlash point> 6Evaporation rateNoFlammability (solid, gas)NoLower inflammability limitNoUpper inflammability limitNoLower explosive limitNoUpper explosive limitNoVapour pressureNoVapour density1,0SolubilityNoPartition coefficient: n-octanol/waterNoAuto-ignition temperature34Decomposition temperatureNoViscosityNoExplosive propertiesNo	8 ot available ot available ot available 60°C ot available ot available
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#### 9.2. Other information

Information not available

## 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.

#### 10.3. Possibility of hazardous reactions

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

Rev. nr. 1

Rev date: 07/02/2020

## **RATTO MORTO PASTA**

Printed on 07/02/2020

Page n. 6/9

## 10.4. Conditions to avoid

Information not available

## 10.5. Incompatible materials

Information not available

## 10.6. Hazardous decomposition products

Information not available

## **SECTION 11. Toxicological information**

#### 11.1. Information on toxicological effects

ACUTE TOXICITY LC50 (Inhalation - vapors) of the mixture: Not classified (no significant component) LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

TRIETHANOLAMINE 99% LD50 (Orale).6400 mg/kg Ratto LD50 (Cutanea).> 2000 mg/kg

BRODIFACOUM TECHNIC LD50 (Orale).0,4 mg/kg ratto LD50 (Cutanea).3,16 mg/kg ratto LC50 (Inalazione).3,05 ppm/4h

CALCIUM HYDROXIDE LD50 (Orale).7340 mg/kg Rat

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 Does not meet the classification criteria for this hazard class STOT - SINGLE EXPOSURE Does not meet the classification criteria for this hazard class STOT - REPEATED EXPOSURE May cause damage to organs **ASPIRATION HAZARD** Does not meet the classification criteria for this hazard class

## **SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

0,04 mg/l/72h

#### 12.1. Toxicity

TRIETHANOLAMINE 99%LC50 - for Fish11800 mg/l/96hEC50 - for Crustacea609,88 mg/l/48hEC50 - for Algae / Aquatic Plants512 mg/l/72hBRODIFACOUM TECHNICLC50 - for Fish0,04 mg/l/96hEC50 - for Crustacea0,25 mg/l/48h

EC50 - for Algae / Aquatic Plants

# RATTO MORTO PASTA

Rev. nr. 1

Rev date: 07/02/2020

Printed on 07/02/2020

Page n. 7/9

CALCIUM HYDROXIDE LC50 - for Fish. EC50 - for Crustacea. EC50 - for Algae / Aquatic Plants. NOEC Cronic for Crustacea. NOEC Cronic for Algae / Aquatic Plants.	50,6 mg/l/96h 49,1 mg/l/48h 184,57 mg/l/72h 32 mg/l 48 mg/l	
12.2. Persistence and degradability		
TRIETHANOLAMINE 99% Rapidly degradable		
BRODIFACOUM TECHNIC NOT rapidly degradable		
12.3. Bioaccumulative potential BRODIFACOUM TECHNIC		
BCF	35134	
12.4. Mobility in soil BRODIFACOUM TECHNIC		
Partition coefficient: soil/water	6,12	
<b>12.5. Results of PBT and vPvB assessment</b> PBT substances contained: BRODIFACOUM TECHNIC		
12.6. Other adverse effects		

Information not available

## **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special not dangerous waste.

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

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. Transport in bulk according to Annex II of Marpol and the IBC Code Information not relevant

**RATTO MORTO PASTA** 

Rev. nr. 1

Rev date: 07/02/2020

Printed on 07/02/2020

#### Page n. 8/9

## **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

<u>Substances in Candidate List (Art. 59 REACH)</u> On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

3

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

No chemical safety assessment has been processed for the mixture and the substances it contains.

## **SECTION 16. Other information**

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

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.

**RATTO MORTO PASTA** 

Rev. nr. 1

Rev date: 07/02/2020

Printed on 07/02/2020

Page n. 9/9

H400 H410 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

I EGEND.

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
   Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. 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
- 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
- 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.