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

- 1.1 Product identifier

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- Trade name: BRODITEC G-29

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Ready for use rodenticide (biocidal product-PT14)

- 1.3 Details of the supplier of the safety data sheet

- **GB Supplier:** Pelsis Ltd. Sterling House Grimbald Crag Close HG5 8PJ Knaresborough United Kingdom T +44 (0) 800 988 5359, F +44 (0) 1423 863 497 info@pelsis.com

E-mail address of the competent person responsible for the SDS: info@pelsis.com

- Further information obtainable from: Pelsis Ltd.

- 1.4 Emergency telephone number:

+44 (0) 800 988 5359 NHS In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to GB CLP

STOT RE 2 H373 May cause damage to the blood through prolonged or repeated exposure.

- 2.2 Label elements

Labelling according to GB CLP

The product is classified and labelled according to the CLP regulation.

- Hazard pictograms



- Signal word Warning

- Hazard-determining components of labelling: brodifacoum
- Hazard statements

 $\ensuremath{\mathsf{H373}}\xspace$ May cause damage to the blood through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe dust.P314 Get medical advice/attention if you feel unwell.P405 Store locked up.P501 Dispose of contents/container in accordance with local regulation.

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- 2.3 Other hazards

- Results of PBT and vPvB assessment

-PBT:	
56073-10-0 brodifacoum	
PBT Brodifacoum fulfils the P, B and T criteria.	
- vPvB:	
56073-10-0 brodifacoum	
vPvB Brodifacoum fulfils the vP criterion.	
Determination of and acrine-disrupting properties	

- Determination of endocrine-disrupting properties

The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions. EU registration/index numbers are provided here below.

- Dangerous components:			
CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23	propane-1,2-diol substance with a workplace exposure limit	1-5%	
CAS: 57-50-1 EINECS: 200-334-9	sucrose substance with a workplace exposure limit	≤1%	
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119480433-40	2,6-di-tert-butyl-p-cresol (BHT) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%	
CAS: 9005-25-8 EINECS: 232-679-6	Starch substance with a workplace exposure limit	<0.1%	
CAS: 56073-10-0 EINECS: 259-980-5 Index number: 607-172-00-1	brodifacoum Acute Tox. 1, H300 (ATE = 0.4 mg/kg bw); Acute Tox. 1, H310 (ATE = 3.16 mg/kg bw); Acute Tox. 1, H330 (ATE = 3.05 mg/m ₃); Repr. 1A, H360D; STOT RE 1, H372; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Specific concentration limits: Repr. 1A; H360: C ≥ 0.003 % STOT RE 1; H372: C ≥ 0.02 % STOT RE 2; H373: 0.002 % ≤ C < 0.02 %	0.0029%	

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information: Please refer to the instructions below for each specific way of exposure.
- After inhalation: Supply fresh air and to be sure call for a doctor.
- After skin contact:

Remove contaminated clothing. Wash skin with water and then with water and soap. If needed, seek for medical advice. - After eye contact:

Alter eye contact.

Rinse eyes with eye-rinse liquid or water, keep eyelids open at least 10 minutes. If needed, seek medical advice.

- After swallowing:

Rinse mouth carefully with water. Never give anything by mouth to unconscious person. Do not provoke vomiting. If swallowed, seek medical advice immediately and show the product's container or label. Contact a veterinary surgeon in case of ingestion by a pet.

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

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. Antidote: Vitamin K1 administered by medical/veterinary personnel only.

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

The primary treatment are the antidote therapy and the clinical assessment. Antidote: Vitamin K1 (phytomenadione). The effectiveness of the treatment should be monitored by measuring the clotting time. Do not interrupt the treatment until the clotting time is back to normality and is stable.

Consult a Poison Control Centre.

Antidote: Vitamin K1 administered by medical/veterinary personnel only.

UK medical professionals should contact the National Poisons Information Service (www.npis.org) for further advice.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.
- For safety reasons unsuitable extinguishing agents: To our knowledge, there are no unsuitable equipments.
- 5.2 Special hazards arising from the substance or mixture In case of fire, toxic gases may be generated.
- 5.3 Advice for firefighters Firefighters equipment in accordance with EN469 European standards.

- Protective equipment:

Do not inhale explosion gases or combustion gases. Firefighters equipment in accordance with EN469 European standards.

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

Pick up mechanically. After cleaning up, ensure adequate ventilation. Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Wash hands and directly exposed skin after using the product.

Wear appropriate protective gloves.

When using the product, do not eat, drink or smoke.

Place the product out of the reach of children, birds, pets and farm animals and other non-target animals.

Place the product away from food, drink and animal feeding stuffs, as well as from utensils or surfaces that have contact with these. Do not smoke near the procuct.

- Information about fire - and explosion protection:

See Section 6. See section 5.

-7.2 Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles:

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.

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- Information about storage in one common storage facility:

Place the product away from food, drink and animal feeding stuffs, as well as from utensils or surfaces that have contact with these.

- Further information about storage conditions:

Protect from frost.

Protect from humidity and water.

- 7.3 Specific end use(s) This product is a rodenticide bait for rodents' control.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

 Ingredients with limit values that require monitoring at the workplace: 			
57-55-6 propane-1,	57-55-6 propane-1,2-diol		
WEL (Great Britain)	Long-term value: 10* 474** mg/m³, 150** ppm * Particulates; ** Total vapour & particulates		
57-50-1 sucrose	·		
WEL (Great Britain)	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³		
128-37-0 2,6-di-tert	-butyl-p-cresol (BHT)		
WEL (Great Britain) Long-term value: 10 mg/m³			
9005-25-8 Starch			
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *total inhalable **respirable		
- Regulatory information WEL (Great Britain): EH40/2018			

- Regulatory information WEL (Great Britain): EH40/2018

- DNELs		
57-55-6 pi	opane-1,2-diol	
Inhalative	Long term - local effects	10 mg/m³ (general population)
		10 mg/m³ (workers)
	Long term - systemic effects	50 mg/m³ (general population)
		168 mg/m³ (workers)
128-37-02	2,6-di-tert-butyl-p-cresol (BH	iT)
Oral	Long term - systemic effects	0.25 mg/kg bw/d (general population)
Dermal	Long term - systemic effects	0.25 mg/kg bw/d (general population)
		0.5 mg/kg bw/d (workers)
Inhalative	Long term - systemic effects	0.435 mg/m³ (general population)
		1.76 mg/m³ (workers)
- PNECs		·
57-55-6 pi	opane-1,2-diol	
PNE	C 260 mg/l (fresh water)	
	183 mg/l (intermittent relea	ses)
	26 mg/l (marine water)	
	20000 mg/l (sewage treatn	nent plant)

 PNEC
 572 mg/kg dw (sediment (fresh water))

 57.2 mg/kg dw (sediment (marine water))

 50 mg/kg dw (soil)

 128-37-0 2,6-di-tert-butyl-p-cresol (BHT)

 PNEC
 0.000199 mg/l (fresh water)

 0.00199 mg/l (intermittent releases)

 0.00002 mg/l (marine water)

 0.17 mg/l (sewage treatment plant)

 PNEC
 0.458 mg/kg (sediment dw)

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		0.046 mg/kg	0.046 mg/kg (sediment dw)		
		0.054 mg/kg (soil dw)			
		16.67 mg/kg	1 (food)		
5607	3-10-0 I	orodifacoum			
Oral	PNEC	0.0000128 m	g/kg bw (bird)		
		0.000011 mg	ı/kg bw (mammal)		
	PNEC	0.00004 mg/	0.00004 mg/l (aquatic organisms)		
		>0.0038 mg/	>0.0038 mg/l (microorganisms)		
	PNEC	>0.88 mg/kg	>0.88 mg/kg ww (soil)		
- Othe	er expo	osure limit v	values		
5607	3-10-0 I	orodifacoum			
Oral	AEL - s	short term	0.0000033 mg/kg bw (AEL)		
	AEL - r	nedium term	0.00000667 mg/kg bw (AEL)		
	AEL - I	ong term	0.0000033 mg/kg bw (AEL)		

- 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.

- Individual protection measures, such as personal protective equipment

- General protective and hygienic measures:

- The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working.
- Respiratory protection: Not required during normal use of the product.

- Hand protection:



Professional use: wear protective chemical resistant gloves (EN 374, category III) during product handling phase.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product 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.

- Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection: Not required during normal use of the product.
- Environmental exposure controls See section 6.
- Risk management measures Follow the above-reported directions.

SECTION 9: Physical and chemical properties

-9.1 Information on basic physical and chemical properties		
- General Information		
- Physical state: Solid		
- Colour:	Red	
- Odour: Characteristic		
- Odour threshold: No data available.		

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No data available. Not applicable (solid). Not flammable	
Not flammable	
6.61 (CIPAC MT 75.3 - 1% aq.)	
Not applicable.	
Insoluble.	
r (log value): No data available.	
Not applicable.	
1.188 g/ml (CIPAC MT 186)	
No data available.	
Not applicable.	
See section 3.	
Solid	
hazard	
Not explosive	
Not applicable	
Not applicable	
Not applicable	
Not applicable	
Not flammable	
ures Not self-reactive	
Not applicable	
Not pyrophoric	
Not applicable	
Not oxidising	
Not applicable	(Contd. on page 7
	Insoluble. Pr (log value): No data available. Not applicable. 1.188 g/ml (CIPAC MT 186) No data available. Not applicable. See section 3. Solid hazard Not explosive Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not flammable ures Not self-reactive Not applicable Not applicable Not applicable Not self-reactive Not applicable Not self-heating mit flammable Not applicable Not applicable Not applicable Not self-heating mit flammable Not applicable Not applicable

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		(Contd. of page 6)
- Corrosive to metals	Not applicable	
- Desensitised explosives	Not applicable	

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Under standard handling and storing conditions, the product does not show any dangerous reaction.
- 10.2 Chemical stability Stable at room temperature and if used as recommended.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.

- 10.4 Conditions to avoid

Under standard handling and storing conditions, the product does not show any dangerous reaction.

- 10.5 Incompatible materials:

Store only in original container.

Given the lack of information about possible incompatibilities with other substances, it is recommended not to use it in combination with other products.

- 10.6 Hazardous decomposition products:

No dangerous decomposition products known under normal conditions of storage and use.

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SECTION 11: Toxicological information

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

- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50	- LD/LC50 values relevant for classification:		
57-55-6 pr	57-55-6 propane-1,2-diol		
Oral	LD50	22000 mg/kg bw (rat)	
Dermal	LD50	>2000 mg/kg bw (rabbit)	
Inhalative	LC50/2h	>317042 mg/m³ (rabbit)	
57-50-1 su	icrose		
Oral	LD50	29700 mg/kg bw (rat)	
128-37-0 2	128-37-0 2,6-di-tert-butyl-p-cresol (BHT)		
Oral	LD50	>2930 mg/kg bw (rat)	
Dermal	Dermal LD50 >2000 mg/kg bw (rat) (OECD 402)		
Inhalative	Inhalative RD50 59.7 ppm (mouse)		
		30 min.	
56073-10-	56073-10-0 brodifacoum		
Oral	LD50	0.4 mg/kg bw (male rat and mouse)	
Dermal	LD50	3.16 mg/kg bw (rat)	
Inhalative	LC50/4h	3.05 mg/m³ (rat)	

- Skin corr	- Skin corrosion/irritation			
57-55-6 pr	57-55-6 propane-1,2-diol			
skin irritatio	skin irritation Not irritating (OECD 404). Prolonged skin contact may cause temporary irritation.			
Based on a	Based on available data, the classification criteria are not met.			
- Serious e	- Serious eye damage/irritation			
57-55-6 pro	57-55-6 propane-1,2-diol			
eye irritatio	n Not irritating (OECD 405). May cause temporary eye irritation.			

Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

- Additional toxicological information:

57-55-6 propane-1,2-diol
Inhalation High concentrations of gases or vapours may irritate the respiratory tract.

- Germ cell mutagenicity Based on available data, the classification criteria are not met.

- Carcinogenicity Based on available data, the classification criteria are not met.

- Repi	- Reproductive toxicity		
128-3	128-37-0 2,6-di-tert-butyl-p-cresol (BHT)		
Oral	Oral NOAEL - developmental toxicity 100 mg/kg bw/d (rat)		
	NOAEL	500 mg/kg bw (rat)	
5607	56073-10-0 brodifacoum		
	developmental toxicity	Clear developmental toxicity was not observed in rabbits or rats. However, as a precaution, Brodifacoum should be considered teratogenic to humans because it contains the same chemical moiety responsible for the teratogenicity of warfarin, a known human teratogenic agent, and it has the same mode of action that is a known mechanism of teratogenicity in humans.	

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Based on available data, the classification criteria are not met.

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- STOT-single exposure Based on available data, the classification criteria are not met.

- STOT-repeated exposure					
128-37-0 2,6-di-tert-butyl-p-cresol (BHT)					
Oral	NOAEL	25 mg/kg bw/d (rat) Long-term exposure to BHT can result in functional and histological changes of lung, liver, kidneys and thyroid. In case of chronic oral exposure, liver is the main target and thyroid is a indirect target. Doses above the NOAEL value result in thyroid iperactivity, enlargement of the liver, induction of several liver enzymes. Since the NOAEL derived from the chronic study is 25 mg/kg bw/d, the substance is not classified as "Specific target organ toxicity - repeated exposure".			
56073-10-0 brodifacoum					
Oral	NOAEL	0.04 mg/kg bw/d (rat) The study reveals that repeated oral exposure results in toxic effects: prothrombin time prolongation, kaolin-caphalin time prolongation, haemorrhage. Based on the results of the acute dermal and inhalation toxicity studies and route-to-route extrapolation, it is justified to assume a similar concern for serious damage to health by prolonged exposure through dermal and inhalation routes also.			
May	cause da	mage to the blood through prolonged or repeated exposure.			

- Aspiration hazard Based on available data, the classification criteria are not met.

- Additional toxicological information: No further relevant information available

- 11.2 Information on other hazards

- Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic and/or terrestrial toxicity:						
57-55-6 propane-1,2-diol						
EC50/96h	19000 mg/l (pseudokirchneriella subcapitata)					
	19100 mg/l (skeletonema costatum)					
LC50/96h	40613 mg/l (oncorhynchus mykiss)					
NOEC/18h	>20000 mg/l (pseudomonas putida)					
NOEC/14d	15000 mg/l (pseudokirchneriella subcapitata)					
	<5300 mg/l (skeletonema costatum)					
NOEC/14d	15000 mg/kg (pseudokirchneriella subcapitata)					
NOEC/7d	13020 mg/l (ceriodaphnia)					
EC50/48h	18340 mg/l (ceriodaphnia dubia)					
128-37-0 2,6-di-tert-butyl-p	128-37-0 2,6-di-tert-butyl-p-cresol (BHT)					
EC50/21d	0.096 mg/l (daphnia magna) (OECD 211)					
EC50/3h	>10000 mg/l (activated sludge)					
EC50/72h	>0.24 mg/l (pseudokirchneriella subcapitata) (OECD 201)					
EC50/24h	1.7 mg/l (Tetrahymena pyriformis) Based on growth inibition.					
IC50/72h	>0.4 mg/l (desmodesmus subspicatus)					
LC0/96h	≥0.57 mg/l (danio rerio)					
LC50/96h	1.1 mg/l (oryzias latipes)					
NOEC/30d	0.053 mg/l (oryzias latipes) (OECD 210)					
LOEC/30d	0.14 mg/l (oryzias latipes) (OECD 210)					
NOEC/21d	0.069 mg/l (daphnia magna) (OECD 211)					
NOEC/72h	0.24 mg/l (pseudokirchneriella subcapitata)					
EC50/48h	0.48 mg/l (daphnia magna) (OECD 202)					
56073-10-0 brodifacoum	·					
LC50/14d	(eisenia foetida) >994 mg/kg dry weight >879.6 mg/kg wet weight					
ErC50/72h	0.04 mg/l (selenastrum capricornutum)					

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EC10/3h		058 mg/l (activated sludge) sed on water solubility at pH 7 and T=20°C.		
EC10/6h		>0.0038 mg/l (pseudomonas putida)		
		sed on water solubility at pH 5.2 and T=20°C.		
LC50/96h	0.04	42 mg/l (oncorhynchus mykiss)		
LC50 (diet)		2 mg/kg food (laughing gull)		
	• /	0.0038 mg/kg food (bird)		
NOEL (reproductive tox	• /	, ,		
LD50		0.31 mg/kg bw (mallard duck)		
EC50/48h		5 mg/l (daphnia magna)		
- 12.2 Persistence and	-	lability		
57-55-6 propane-1,2-di				
biodegradability		28 days; OECD 301F)		
	96% (64 Readily I	days) biodegradable.		
128-37-0 2,6-di-tert-but	-	•		
		3 days, OECD 301C - Ready biodegradability: Modified MITI test).		
2.0.009.000000000000000000	Not read	lily biodegradable.		
56073-10-0 brodifacou	m			
biodegradability		ly biodegradable.		
	Brodifac	Brodifacoum will probably partition into sewage sludge/sediment due to its high log Kow and oor water solubility.		
photolytic half-life		•		
Hydrolitic half-life		83 days. Degrades rapidly by photolysis. year. Stable at pH 5, 7 and 9.		
•	-			
- 12.3 Bioaccumulativ	•			
57-55-6 propane-1,2-di	01			
bioconcentration factor		BCF: < 0.09 The substance is not bioaccumulable.		
octanol-water partition c	oefficient	Log Kow = -1.07		
128-37-0 2,6-di-tert-but	yl-p-cres	ol (BHT)		
bioaccumulation		An appreciable bioaccumulation potential is foreseeable.		
56073-10-0 brodifacou	m			
bioconcentration factor		BCF fish = 35645 (calculated according to TGD eq. 75, using log Kow = 6.12). BCF earthworm = 15820 (calculated according to TGD ed. 82d, using log Kow = 6.12).		
octanol-water partition co	pefficient	log Kow = 6.12 (estimated from measured Koc).		
- 12.4 Mobility in soil				
57-55-6 propane-1,2-di	ol			
Henry's law constant		0.00566 atm m³/mol (12°C)		
56073-10-0 brodifacou	m			
DT50		157 days. Persistent.		
organic carbon partition coeffic				
soil mobility		Under basic conditions (high pH), Brodifacoum is not likely to be adsorbed onto soils or sewage sludge due to the ionisation of the molecule. Under acidic conditions (low pH), Brodifacoum is likely to be adsorbed onto soils or sewage sludge as the molecule is in its neutral or non-ionised form.		

- General notes:

Hazardous to wildlife.

Do not allow the product to reach ground water, water course or sewage system.

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- 12.5 Results of PBT and vPvB assessment

- PBT:	
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56073-10-0 brodifacoum

PBT Brodifacoum fulfils the P, B and T criteria.

-vPvB:

56073-10-0 brodifacoum

vPvB Brodifacoum fulfils the vP criterion.

12.6 Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

- 12.7 Other adverse effects

56073-10-0 brodifacoum

. The major environmental concern of Brodifacoum is primary and secondary poisoning of non-target animals.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

At the end of the treatment, dispose of uneaten bait and the packaging in accordance with local requirements.

In the UK waste bait should be double bagged in plastic bags and disposed of in a household waste bin with a secure lid to prevent access of wildlife or pets or taken to a civic amenity site. For information on civic amenity sites contact the local authority.

- Uncleaned packaging:

- **Recommendation:** Dispose of in accordance with local requirements.

SECTION 14: Transport information					
- 14.1 UN-Number or ID number					
- ADR, ADN, IMDG, IATA	Not applicable				
- 14.2 UN proper shipping name					
- ADR, ADN, IMDG, IATA	Not applicable				
- 14.3 Transport hazard class(es)					
- ADR, ADN, IMDG, IATA					
- Class	Not applicable				
- 14.4 Packing group					
- ADR, IMDG, IATA	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	Not applicable.				
- UN "Model Regulation":	Not applicable				

SECTION 15: Regulatory information

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

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- Seveso category This product is not subject to Seveso directive dispositions.

- REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

The mixture does not contain substances identified as POP.

- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) The product does not contain any substance included in annex XIV.

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Safety data sheet

according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulation SI 2019/758, SI 2019/858 and SI 2019/1144

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- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30, 75
- Regulation (EU) No 649/2012 (PIC) There are no substances listed in this regulation.
- REGULATION (EU) 2019/1148 Explosive precursors

The mixture does not contain explosives precursors in concentrations equal to or greater than 1%.

- National regulations: No further information available.
- Other regulations, limitations and prohibitive regulations

Authorisation holder: ARROW REGULATORY LIMITED - 149-155 CANAL STREET, NOTTINGHAM, NG1 7HR, UK Authorisation n° GB-2015-0895-0002

- Substances of very high concern (SVHC) according to REACH, Article 59 The mixture does not contain SVHC substances in concentration equal to or greater than 0.1% by weight.
- Regulation (EU) n. 2024/590: substances that deplete the ozone layer

The mixture does not contain substances that deplete the ozone layer.

- Regulation (EC) n. 850/2004: persistent organic pollutants None.

- 15.2 Chemical safety assessment:

A Chemical Safety Assessment according to Regulation (EC) No. 1907/2006 has not been carried out for the mixture.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Any responsibility derived from misuse of the product or in case of violation of current regulations is refused.

Relevant phrases

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- Classification according to Regulation (EC) No 1272/2008

Physico-chemical hazards: the classification of the mixture is based on the criteria established by annex I, part 2, of Regulation (EC) No. 1272/2008. If relevant, the methods are reported in section 9.

Health and environmental hazards: the classification of the mixture is based on the calculation method stated in annex I, parts 3 and 4, of Regulation (CE) No. 1272/2008, using components data.

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) NOELR: No Observed Effect Loading Rate RD50: Respiratory Decrease, 50 percent LC0: Lethal concentration, 0 percent NOEC: No Observed Effect Concentration IC50: Inhibitory concentration, 50 percent NOAEL: No Observed Adverse Effect Level EC50: Effective concentration, 50 percent EC10: Effective concentration, 10 percent AEC: Acceptable Exposure Concentration LL0: Lethal Load, 0 percent AEL: Acceptable Exposure Limit LL50: Lethal Load, 50 percent EL0: Effective Load, 0 percent EL50: Effective Load, 50 percent ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 1: Acute toxicity - oral - Category 1 Repr. 1A: Reproductive toxicity - Category 1A

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STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

- References

- Biocidal Products Committee (BPC) opinion June 2016 on the active substance;
- Assessment Report on the active substance (available at ECHA website);

- Sources

- 1. The E-Pesticide Manual 2.1 Version (2001)
- 2. Regulation (EC) 1907/2006 and following amendments
- 3. Regulation (EC) 1272/2008 and following amendments
- 4. Regulation (EU) 2020/878
- 5. Regulation (EU) 528/2012
- 6. Regulation (EC) 790/2009 (1st ATP CLP)
- 7. Regulation (EU) 286/2011 (2nd ATP CLP)
- 8. Regulation (EU) 618/2012 (3rd ATP CLP)
- 9. Regulation (EU) 487/2013 (4th ATP CLP)
- 10. Regulation (EU) 944/2013 (5th ATP CLP)
- 11. Regulation (EU) 605/2014 (6th ATP CLP)
- 12. Regulation (EU) 2015/1221 (7th ATP CLP)
- 13. Regulation (EU) 2016/918 (8th ATP CLP) 14. Regulation (EU) 2016/1179 (9th ATP CLP)
- 15. Regulation (EU) 2017/776 (10th ATP CLP)
- 16. Regulation (EU) 2018/669 (11th ATP CLP)
- 17. Regulation (EU) 2019/521 (12th ATP CLP)
- 18. Regulation (EU) 2018/1480 (13th ATP CLP)
- 19. Regulation (EU) 2020/217 (14th ATP CLP)
- 20. Regulation (EU) 2020/1182 (15th ATP CLP) 21. Regulation (EU) 2021/643 (16th ATP CLP)
- 22. Regulation (EU) 2021/849 (17th ATP CLP)
- 23. Directive 2012/18/EU (Seveso III)
- 24. ECHA web site

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