



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

1.1 Product identifier:

Trade name: PEST O ONE BLUE GRAIN 25 RAT & MOUSE KILLER 50g
Product code: -

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

Relevant identified uses of the substance or mixture:

Rodenticide - Biocidal use Amateur and professional use

Use in a secure manner. For amateur and non-professionals: use secure bait stations. Professionals must use rodenticides in bait stations or other secure bait stations which provide the same level of security.

Uses advised against:

Do not use for purposes other than those stated in "Recommended uses"

1.3 Details of the supplier of the safety data sheet

SISI (UK) LTD, 139 Brackenbury Road, London, W6 0BQ

Tel: +44 02087415463 (office hours only)

Emergency tel: +44 02087415463. (office hours only)

Emergency telephone number

Emergency information services / official advisory body:

Country	Organisation/ Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle- upon-Tyne NE1 4LP Newcastle	0344 892 0111
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Specific target Organ Toxicity Repeated Exposure Category 2

H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

**Hazard pictograms:**

GHS08

Signal word:

Warning

Hazard statements:

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P102 Keep out of reach of children.
 P103 Read label before use
 P260 Do not breathe dust.
 P262 Do not get on skin.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves.
 P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P314 Get medical advice/attention if you feel unwell.
 P404+405 Store locked up in a closed container.
 P501 Dispose of contents/container in accordance with applicable regulations.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

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 Substance**

n.a.

3.2 Mixture

Hazardous components within the meaning of the CLP regulation and related classification:

Substance:	EC/CAS numbers:	EU Index No./REACH Registration Number:	CLP Classification:	Content:
brodifacoum (ISO); 4-hydroxy-3-(3-(4'-bromo-4-biphenyl)-1,2,3,4-tetrahydro-1-naphthyl)coumarin	259-980-5/ 56073-10-0	607-172-00-1/-	Repr. 1A; H360D Acute Tox. 1 (Inhal.) H330 Acute Tox. 1 (Dermal); H310 Acute Tox. 1 (Oral); H300 STOT RE 1; H372 (blood) Aquatic Acute 1; H400	25 ppm



			Aquatic Chronic 1; H410 Specific Concentration Limits, M-factors and ATEs if available: Repr. 1A; H360D: C ≥ 0,003 % STOT RE 1; H372 (blood): C ≥ 0,02 % STOT RE 2; H373 (blood): 0,002 % ≤ C < 0,02 % M = 10 M = 10	
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For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of: Dermal exposure, wash skin with water and then with water and soap. Seek medical attention if ill effect or irritation develops.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of skin or eye contact, immediately and thoroughly wash with water. Seek medical attention if ill effect or irritation develops

In case of Ingestion:

Rinse mouth. Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Immediately consult a physician and show the label. Do not induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest. Assure fresh air breathing

Seek medical attention if breathing difficulties appear and persist.

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.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

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

The product contains an anticoagulant rodenticide, a treatment with Vitamine K1 could be necessary during a long time.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water/CO₂



Unsuitable extinguishing media None known

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3 Advice for firefighters

Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety.
See protective measures under point 7 and 8

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand.

6.3 Methods and material for containment and cleaning up

Rapidly recover the product. To do so, wear a mask and protective clothing. Wash with plenty of water.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment. Advice on general occupational hygiene:
Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed Keep in a dry and cool place.
Keep out of reach of children
Keep away from food and drink and animal feeding stuffs
Store in places prevented from the access of children, birds, pets and farm animals. Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3 Specific end use(s)

Insecticide - Biocidal use

SECTION 8: Exposure controls/personal protection



8.1 Control parameters

DNEL Exposure Limit Values
Not available

PNEC Exposure Limit Values

Brodifacoum - CAS: 56073-10-0

Target: Fresh Water - Value: 0.00004 mg/l

Target: Freshwater sediments - Value: 0.000004 mg/l

Target: Microorganisms in sewage treatments - Value: 0.0038 mg/l Target: Soil - Value: 0.88 mg/kg

8.2 Exposure controls

Eye protection:

Not needed for normal use. Operate according good working practices.

Protection for skin:

No special clothing / skin protection equipment is recommended under normal conditions of use.

Wash clothing regularly

Protection for hands:

Wearing gloves is recommended.

Nitrile reusable gloves certified for chemical protection according to standard EN374-3

Respiratory protection:

Class FFP1

Do not breathe dusts

Thermal Hazards: None

Environmental exposure controls:

Hazardous to wildlife.

Prevent access to children, pets and non-target animals. Avoid release in the environment

Avoid release in watercourses and sewers

Place baits in areas not submersible and weatherproof.

Appropriate engineering controls: None

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Blue/brown grain	--	--
Odour:	Light	--	--
Odour threshold:	Not available	--	--
pH:	6.03	CIPAC MT 75.3	at 1 % in water after 2 min
Melting point / freezing point:	Not available	--	--
Initial boiling point and boiling range:	Not available	--	--
Flash point:	Not available	--	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not flammable	Regulation (EC) No. 440/2008,	Not flammable



Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	0.398 - 0.465 g/ml	CIPAC MT 186	Pour density : 0.398 g/ml Tap density : 0.465 g/ml
Solubility in water:	Insoluble	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not available	Regulation (EC) No. 440/2008, Annex, A.15	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	Not available	--	--
Oxidizing properties:	Not available	--	--

9.2 Other information

Properties	Value	Method:	Notes:
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
Substance Groups relevant properties	Not available	--	--

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Stable under normal conditions.

10.5 Incompatible materials

None reported.

10.6 Hazardous decomposition products

None.

SECTION 11: Toxicological information



11.1 Information on toxicological effects

Toxicological information of the product: Not available

Adverse health effects

May causes damage to the blood through prolonged or repeated exposure

(a) acute toxicity:

Product:

Not classified; no information.

Ingredient:

Brodifacoum - CAS: 56073-10-0

a) acute toxicity:

Test: LD50 - Route: oral - Species: Mouse : = 0.4 mg/Kg - Source: Assessment report

Test: LD50 - Route: dermal - Species: Rat : = 3.16 mg/Kg - Source: Assessment Report - Notes: Female

Test: LC50 - Route: Inhalation - Species: Rat : = 3.05 mg/m3 - Source:

Assessment Report - Notes: Female

(b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit : Slightly irritant - Source:

Assessment Report

(c) serious eye damage/irritation:

Test: Eye Irritant - Route: ocular - Species: Rabbit : Slightly irritant - Source:

Assessment Report - Notes: Reversible

(d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: dermal sensitizing - Source: Assessment Report

- Notes: Maximisation test of Ritz and Buehler

(f) carcinogenicity:

Product:

Not classified; no information.

(g) reproductive toxicity:

Test: NOAEL - Route: oral - Species: Rat : = 0.001 mg/kg b.w/d - Source: Assessment Report - Notes:

Maternal toxicity

(h) STOT-single exposure:

Product:

Not classified; no information.

(i) STOT-repeated exposure:

Product:

Classified as STOT RE2

(j) aspiration hazard:

Product:

Not classified; no information.

11.2 Information on other hazards:

Endocrine disrupting properties: None

Other information: None

SECTION 12: Ecological information



12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Not available

Brodifacoum - CAS: 56073-10-0

a) Aquatic acute toxicity:

Endpoint: EC50 Daphnia magna = 0.25 mg/L - Duration h: 48

Endpoint: LC50 Rainbow Trout = 0.04 mg/L - Duration h: 96

Endpoint: ErC50 Algae = 0.04 mg/L - Duration h: 72

12.2. Persistence and degradability

Brodifacoum - CAS: 56073-10-0

Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential

Brodifacoum - CAS: 56073-10-0

Bioaccumulation: Calculated bioaccumulation - Test: BCF - Bioconcentration factor 35134 - Duration: Not available - Notes: Fish - Calculated according to TGD eq. 75, using log Kow = 6.12

Bioaccumulation: Calculated bioaccumulation - Test: BCF - Bioconcentration factor 15820 - Duration: Not available - Notes: Earthworm - calculated according to TGD eq. 82d, using log Kow = 6.12

12.4. Mobility in soil

Brodifacoum - CAS: 56073-10-0

Mobility in soil: Not mobile - Test: Leaching column

12.5. Results of PBT and vPvB assessment

vPvB Substances: None

PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not available.

14.3. Transport hazard class(es)

Not available.

14.4. Packing group

Not available.

14.5. Environmental hazards

Marine pollutant No

Not available

14.6. Special precautions for user

Not available

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



Not available

SECTION 15: Regulatory information

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

EU Regulations

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

COMMISSION REGULATION (EU) 2015/830 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
 Regulation (EC) nr 648/2004 (detergents).
 Dir. 2004/42/EC (VOC directive)

National Regulations/legislation:

Refer to applicable national classification, packaging and labelling legislation.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for the mixture.

SECTION 16: Other information

(a) Reasons for revision:

Update to latest version of REACH.
 Addition of ATEs and M-factors for ingredients to reflect latest Adaptions to Technical Progress.

(b) Abbreviations and acronyms:

Acute Tox. 1 (Dermal):	Acute Toxicity (Dermal) Category 1
Acute Tox. 1 (Inhal.):	Acute Toxicity (Inhalation) Category 1
Acute Tox. 1 (Oral):	Acute Toxicity (Oral) Category 1
Aquatic Acute 1:	Aquatic Toxicity Acute Category 1
Aquatic Chronic 1:	Aquatic Toxicity Chronic Category 1
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labelling, Packaging.
CSR:	Chemical safety report
DNEL:	Derived No Effect Level.
EC50:	Effective Concentration 50%
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
Eye Dam. 1:	Eye Damage Category 1
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

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 Replaces: SDS dated 27/03/2018



ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
M-Factor:	Multiplication factor [for aquatic toxicity values].
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
PBT:	Persistent, Bioaccumulative and Toxic substance
Repr. 1A:	Reproductive Toxicity Category 1A
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
Skin Corr. 1:	Skin Corrosion Category 1
Skin Sens. 1A:	Skin Sensitivity Category 1A
STEL:	Short Term Exposure limit.
STOT RE1/2:	Specific Target Organ Toxicity Repeated Exposure Category 1/2.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
UN:	United Nations
vPvB	very persistent and very bioaccumulative
WGK:	German Water Hazard Class.

(c) Key literature references and sources for data:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

(d) Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
STOT RE 2, H373	Calculation method

(e) Relevant H-statements and precautionary statements not written out in full under Sections 2 to 15:

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H360D	May damage the unborn child.
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.

(f) Training advice:

Employee instruction/training in handling hazardous materials is required.

(g) Further information:

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 2015/830.
 General occupational hygiene training recommended.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product