

Sakarar Difen Whole Grain



Safety Data Sheet

Labelling according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019

Control of Substances Hazardous to Health Regulations 2002 (as amended). The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020

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

1.1 Product identifier

Sakarar Difen Whole Grain : (UK-2011-0143-0004)

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

Relevant identified uses: A ready-to-use, blue whole-grain bait rodenticide containing Difenacoum (0.005%w/w) for use by professionals for the control of rats and mice.

1.3. Details of the supplier of the safety data sheet

Address: Killgerm Chemicals Ltd, Wakefield Road, Ossett, WF5 9AJ

Tel: +44 (0)1924 268 450

Fax: +44 (0)1924 265 033

Email: technical@killgerm.com

1.4. Emergency telephone number

Medical professionals should use National Poisons Information Service Tel: 0870 600 6266.

Killgerm Chemicals Ltd Tel:01924 268452 (Office hours) Emergency Line 01865407333

Non-medical professionals should seek information by contacting NHS by dialling 111.

SECTION 2: Hazards identification

2.1. Classification of the mixture according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 1B; H360D May damage the unborn child.

STOT RE 2; H373 May cause damage to organs (blood) through prolonged or repeated exposure

2.2. Label elements



GHS08

Signal word: **Danger**

H360D May damage the unborn child.

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

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P280 Wear protective gloves.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex VIII.

This mixture does not contain substances included in the list established in accordance with Article 59 (1) of REACH for having endocrine disrupting properties.

This product contains an anticoagulant compound. If large quantities are ingested, nosebleed and bleeding gums may occur. In severe cases there may be bruising, haematomas of the joints and blood present in the faeces or urine.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous Components in Product

Ingredient Name	Classification	Concentration	H Phrases
Difenacoum (ISO) CAS Number: 56073-07-5	Acute Tox. 1 (Oral) Acute Tox. 1 (Dermal) Acute Tox. 1(Inhalation) Repr. 1B STOT RE 1 Aquatic Acute 1 Aquatic Chronic 1	0.005% w/w	H300 H310 H330 H360D H372 H400 (M=10) H410 (M=10)
Whole Wheat Grain	Not Classified	≥ 75	-
Propane-1,2-diol	Not Classified	4 - 5	-

Specific concentration limits:

Name	Specific concentration limits
Difenacoum (ISO) CAS Number: 56073-07-5	(0 < C < 0.02) STOT RE 2, H373 (0.003 ≤ C ≤ 100) Repr. 1B, H360D (0.02 ≤ C ≤ 100) STOT RE 1, H372

See section 16 for full text of H phrases and hazard classification of ingredients.

SECTION 4: First aid measures

4.1. Description of first aid measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation: Allow affected person to breathe fresh air. Allow victim to rest.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, or redness persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Bait stations must be labelled with the following information: "do not move or open"; "contains a rodenticide"; "product name or authorisation number"; "active substance(s)" and in case of accident, call a poison centre "national poisons centre Tel: 0870 600 6266".

DO NOT LEAVE POISONED PERSON ALONE UNDER ANY CIRCUMSTANCE.

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

Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

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

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

ADVICE FOR DOCTORS: Difenacoum is an indirect anti-coagulant. Phytomenadione and Vitamin K1 are antidotal. Determine prothrombin time not less than 18 hours after consumption. If elevated, administer Vitamin K1 40mg/day for adults and 20mg/day for children in divided doses. Continue until prothrombin times normalise. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

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N.B. Vitamin K3 is not effective.

For comprehensive medical advice on the treatment of poisoning, contact the nearest Poisons Information Centre.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use water spray, foam, dry powder, carbon dioxide or sand.

Unsuitable extinguishing media: Water jet.

5.2. Special hazards arising from the substance or mixture

Product is not explosive.

In the event of fire, poisonous and irritating gasses are released e.g.: carbon monoxide – carbon dioxide.

5.3. Advice for firefighters

Do not breath vapours or fumes from the fire.

Use water spray or fog for cooling exposed containers.

Wear appropriate protective clothing (including helmets, protective boots and gloves) (EN469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN137).

Ensure water used to extinguish the fire does not reach any water channel or drains. If this occurs notify authorities.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (Section 8). Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Ensure the product does not reach any water channel or drains. If this occurs, notify the relevant authorities immediately.

6.3. Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.

For Large amounts: Sweep/shovel up. Avoid raising dust.. Collect waste in suitable containers, which should be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

6.4. Reference to other sections

See also sections 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from children and non-target animals. Do not eat, drink or smoke whilst using the product.

Follow good personal hygiene practices wash by washing your hands at breaks. When done working with the product, wash yourself and change clothes.

Remove dead/dying rats or mice found during and after the control program in order to prevent secondary poisoning.

Do not apply in the open – cover bait points or use bait boxes.

Protection against fire and explosion:

Dust can form an explosive mixture with air. Avoid dust formation. Prevent electrostatic charge, keep away from sources of ignition, fire extinguishers should be kept nearby.

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7.2. Conditions for safe storage, including any incompatibilities

Store in the original container, tightly closed in a cool well-ventilated secure location.

Protect from extremes of temperature, moisture, and direct sunlight.

Keep out of the reach of children and animals.

Store away from odour releasing products.

7.3. Specific end use(s)

For the relevant identified use(s) listed in section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

United Kingdom – Occupational Exposure Limits

Whole wheat grain	
WEL TWA (OEL TWA)	10 mg/m ³
Remark	Sen (Capable of causing occupational asthma)
Regulatory reference	EH40/2005 (Fourth edition, 202). HSE

Propane-1,2-diol (57-55-6)	
WEL TWA (OEL TWA) [1]	10 mg/m ³ particulates 474 mg/m ³ total pressure and particulates
WEL TWA (OEL TWA) [2]	150 ppm total pressure and particulates
Regulatory reference	EH40/2005 (Fourth edition, 202). HSE

8.2. Exposure controls

Where exposure may occur engineering controls should be employed. A risk assessment should be carried out and the following PPE may be appropriate /required.

PPE	Item in use	Spillage
Respirators	Not needed under normal use and adequate ventilation.	Half mask respirator to EN140 plus P class filter to EN 143 to required (nominal) protection factor (minimum). Type 3 or FFP3
Gloves	Protective Gloves to EN 374 (300mm in length). Nitrile or PVC.	Protective Gloves to EN 374 (300mm in length). Nitrile or PVC.
Overall	Basic type e.g., Heavy duty polycotton or coverall type 5/6.	Basic type e.g., Heavy duty polycotton or coverall type 5/6.
Goggles / Face shield	Not required under normal conditions of use	Safety glasses to EN 166

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	A green/blue whole wheat grain bait.
Odour:	Wheat odour.
Odour threshold:	Not applicable.

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pH:	6.4
Melting point/freezing point:	No available data.
Initial boiling point/boiling range:	No available data.
Flash point:	No available data.
Evaporation rate:	Not applicable.
Flammability:	Non flammable
Upper/lower flammability or explosive limits:	Not applicable.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative density:	0.74g/cm ³ at 20°C
Solubility(ies):	Insoluble.
Partition coefficient n-octanol/water (log Kow):	7.6 of difenacoum.
Auto-ignition temperature:	No available data.
Decomposition temperature:	No available data.
Viscosity:	No available data.
Explosive properties:	No available data.
Oxidising properties:	No available data.

9.2 Other Information

Self-heating ability:	It is not a substance capable of spontaneous heating.
Combustibility:	Combustible

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Mixture is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

None anticipated. NO hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

Avoid extremes of temperature and direct sunlight. See section 7 – handling and storage.

10.5. Incompatible materials

Store away from strong oxidising agents, strong acids and strong bases.

10.6. Hazardous decomposition products

Carbon monoxide and oxides of nitrogen, toxic and irritants released if mixture is involved in a fire. No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

a) **acute toxicity:** Information has been derived from the properties of the individual ingredients.

Sakarar Difenacoum Whole Grain: LD50 oral rat: > 2000 mg/kg

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Difenacoum (56073-07-5): LD50 oral rat: 1.8 mg/kg

LD50 dermal rat: 63 mg/kg

LC50 Inhalation – Rat: 0.00346 – 0.005848 mg/l/4h

Propane-1,2-diol (57-55-6): LD50 oral rat: 22000 mg/kg bodyweight Animal: rat

LD50 dermal rabbit: >2000 mg/kg bodyweight Animal: rabbit.

LC50 Inhalation – Rat: >44.9 mg/l air Animal: rat.

b) irritation: the product is not classified as irritating. The product has not been tested. The statement has been derived from the properties of individual components.

c) corrosivity: The product is not classified as corrosive. The product has not been tested. The statement has been derived from the properties of individual components.

d) sensitisation: Contains no known skin or respiratory sensitizers.

e) repeated dose toxicity: The product has not been tested. Repeated exposure to small quantities may affect certain organs, Damages the coagulation system.

f) carcinogenicity: the product is not classified as carcinogenic. The product has not been tested. The statement has been derived from the properties of individual components.

g) mutagenicity: Mutagenicity test revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of individual components.

h) toxicity for reproduction: May damage the unborn child.

i) aspiration: No information.

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

k) STOT-repeated exposure: May cause damage to organs (blood) through prolonged or repeated exposure.

Difenacoum (56073-07-5): STOT-repeated exposure: Causes damage to organs (blood) through prolonged or repeated exposure.

Propane-1,2-diol (57-55-6): NOAEL (subchronic, oral, animal/male, 90days): 443mg/kg bodyweight Animal: cat, male

11.2. Other Data

See section 2.3

SECTION 12: Ecological information

12.1. Toxicity

Difenacoum (56073-07-5):

LC50 – Fish: 0.064mg/l

EC50 – Crustacea: 0.52 ml/l

Propane-1,2-diol (57-55-6):

LC50 – Fish [1]: 51600 mg/l, Oncorhynchus mykiss

L-50 – Fish [2]: 51400 mg/l, Pimephales promelas

EC50 (72h) – Algae [1]: 24200 mg/l, Pseudokirchneriella subcapitata

EC50 (72h) – Algae [2]: 19300 mg/l, Skeletonema costatum

EC50 (96h) – Algae [1]: 19000 mg/l, Pseudokirchneriella subcapitata

EC50 (96h) – Algae [2]: 19100 mg/l, Skeletonema costatum

12.2. Persistence and degradability

Not readily biodegradable.

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12.3. Bioaccumulative potential

This product is not expected to bioaccumulate.

12.4. Mobility in soil

Mobility potential is very low and will depend principally on the soil type. Difenacoum and any potential degradation products even if released indirectly to soil in small quantities are not likely to move through the soil profile and are unlikely to reach groundwater in significant quantities. The product has not been tested.

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

None known. This product does not contain substances that are listed in Regulation (EC)1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal of the product, empty containers and contaminated packaging must be made in accordance with the local law. All the items related with the product must not be disposed of with household waste or into the aquatic environment. Please contact the supplier, local authority, or the Environmental Agency for advice about disposal.

- Empty outer pp 10k bag, contaminated but shaken empty. EWC code 20 01 19.
- Empty inner liner (10k bag) contaminated but shaken empty. EWC code 20 01 19.
- Empty pp bag plus inner liner contaminated but shaken empty. EWC code 20 01 19.
- Coveralls, gloves, and other PPE, contaminated. EWC code 20 01 19.
- Spent bait. EWC code 20 01 19. Biocide solid waste. Waste classification hazardous.
- Contact supplier, local authority, or Environment Agency for advice about disposal of waste items.

SECTION 14: Transport information

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.

Not applicable.

SECTION 15: Regulatory information

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

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The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

- Restricted to professional users.
- Refer to other relevant measures such as the Health and Safety at Work etc. Act 1974 and the COSHH regulations and guidance.
- The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Use only in accordance with label instructions.

Operatives using this product should be trained in its use.

The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations.

Ingredient classification data:

Acute Toxicity, 1 (Oral)	H300 Fatal if swallowed.
Acute Toxicity, 1 (Dermal)	H310 Fatal in contact with skin.
Acute Toxicity, 1(Inhalation)	H330 Fatal if inhaled.
Reproductive toxicity, 1B	H360D May damage the unborn child.
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	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

Issue number (date)	Section amended
Issue (April 2019)	Detail of updates not recorded
Issue (July 2019)	Update to style and layout – some updates to minor wording.
Issue Jan 2022	Added Emergency number – Updated section 15 legislation
Issue July 2023	Updated emergency number in Section 1.4. Updates to Section 8 and 11. Updates to wording throughout.

This safety data sheet does not constitute a COSHH assessment.

The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.