

RUBY BLOCK 25

SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : RUBY BLOCK 25
UFI : 5H51-5X2V-G005-P13Q

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

Recommended use(s): Rodenticide - Biocidal use.
Use(s) advised against: Do not use for purposes other than those stated in "Recommended use(s)"

Use descriptor system (REACH) :

Not available.

1.3. Details of the supplier of the safety data sheet

Registered company name : (GB) LODI UK .
Address : Building 69, Pensnett Trading Estate, Kingswinford.DY6 7FD.West Midlands.UNITED KINGDOM.
Telephone : 01 384 40 42 42. Fax : .
fds@lodi.fr
(NI) LODI SAS - PA des Quatre Routes 35390 Grand-Fougeray FRANCE

1.4. Emergency telephone number : 0844 892 011.

Association/Organisation : NPIS (National Poison Centre) - Birmingham Unit .

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Biocidal mixture (see section 15).

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS08

Signal Word :

WARNING

Product identifiers :

EC 259-978-4 DIFENACOUM (ISO)

Hazard statements :

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

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Precautionary statements - Prevention :

P220 Keep away from food, drink and animal feedingstuffs.

P260 Do not breathe dust.

P262 Do not get in eyes, on skin, or on clothing.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves (professional only).

Precautionary statements - Response :

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P314 Get medical advice/attention if you feel unwell.

Precautionary statements - Storage :

P404 Store in a closed container.

P405 Store locked up.

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Precautionary statements - Disposal :

P501

Dispose of contents/container according to the regulation.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Composition :**

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 8002_74_2 CAS: 8002-74-2 EC: 232-315-6 REACH: 01-2119488076-30-0017 PARAFFINE ET CIRE D'HYDROCARBURE		[1]	25 \leq x % < 50
INDEX: 57_55_6B CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23 PROPYLENE GLYCOL		[1]	0 \leq x % < 2.5
INDEX: 607_157_00_X CAS: 56073-07-5 EC: 259-978-4 DIFENACOUM (ISO)	GHS06, GHS09, GHS08 Dgr Acute Tox. 1, H300 Acute Tox. 1, H310 Acute Tox. 1, H330 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 10	[2]	0 \leq x % < 2.5

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures**In the event of exposure by inhalation :**

Remove casualty to fresh air and keep warm and at rest. Seek medical attention if difficulties appear and persist.

In the event of splashes or contact with eyes :

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

In case of eye exposure, flush eyes with eye wash solution or water, holding eyelids open for at least 10 min.

In the event of splashes or contact with skin :

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In case of skin exposure, clean skin with water then with soap. Seek medical attention if irritation or discomfort develops

Remove contaminated clothing immediately and dispose off safely.

In the event of swallowing :

Seek medical attention, showing the label.

In case of oral exposure, rinse mouth carefully with water.

Never give anything by mouth . Do not induce vomiting.

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**Specific and immediate treatment :**

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

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Information for the doctor :

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

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- carbon dioxide (CO₂)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Rapidly collect the product. To do so, wear a mask and protective clothing

Wash with plenty of water.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

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.

Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in dust.

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

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7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

- Keep out of reach of children.
- Keep the container tightly closed in a dry, well-ventilated place.
- Keep away from food and drink and animal feeding stuffs.
- Store in the original container, hermetically sealed.
- Store in places prevented from the access of children, birds, pets and farm animals.

Packaging

- Always keep in packaging made of an identical material to the original.
- Recommended types of packaging :
Original packaging.
- Suitable packaging materials :
Original packaging.
- Unsuitable packaging materials :
Different that the original packaging.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
8002-74-2	2 mg/m3				

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
8002-74-2	-	2	-	-	-	36

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
8002-74-2	2 mg/m3	6 mg/m3			
57-55-6	10 mg/m3				

Predicted no effect concentration (PNEC):

DIFENACOUM (ISO) (CAS: 56073-07-5)

Environmental compartment: Soil.
PNEC : 0.877 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.06 µg/l

Environmental compartment: Fresh water sediment.
PNEC : 2.51 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 480 µg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Amateurs and non-professionals: the gloves are recommended. Professionals : The gloves are mandatory. Wash hands after use.

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- Body protection

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid inhaling dust.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Solid.
Physical state : Block.
Color: Red.

Important health, safety and environmental information

pH : Not relevant.
Boiling point/boiling range : Not relevant.
Flash point interval : Not relevant.
Vapour pressure (50°C) : Below 110 kPa (1.10 bar).
Density : 1.28
Method for determining the density : OCDE Guideline 109 (Density of liquids and solids).
Water solubility : Insoluble.
Melting point/melting range : 52.8-54.4°C
Self-ignition temperature : Not relevant.
Decomposition point/decomposition range : Not relevant.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Avoid :

- formation of dusts

Dusts can form an explosive mixture with air.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

May cause severe damage to organs in the event of repeated or prolonged exposure.

11.1.1. Substances

Acute toxicity :

PARAFFINE ET CIRE D'HYDROCARBURE (CAS: 8002-74-2)

OECD Guideline 402 (Acute Dermal Toxicity)

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DIFENACOUM (ISO) (CAS: 56073-07-5)

Oral route :

LD50 >= 1.8 mg/kg bodyweight/day
Species : Rat

Dermal route :

LD50 >= 51.54 mg/kg bodyweight/day
Species : Rat

Inhalation route (Gas) :

LC50 >= 0.0036 mg/l
Species : Rat

PROPYLENE GLYCOL (CAS: 57-55-6)

Oral route :

LD50 = 22000 mg/kg bodyweight/day
Species : Rat

Dermal route :

LD50 > 2000 mg/kg bodyweight/day
Species : Rabbit

Inhalation route (Dusts/mist) :

LC50 > 317042 mg/l
Species : Rabbit

Skin corrosion/skin irritation :

PROPYLENE GLYCOL (CAS: 57-55-6)

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation :

PROPYLENE GLYCOL (CAS: 57-55-6)

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

PARAFFINE ET CIRE D'HYDROCARBURE (CAS: 8002-74-2)

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitisation :

PROPYLENE GLYCOL (CAS: 57-55-6)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity :

PROPYLENE GLYCOL (CAS: 57-55-6)

No mutagenic effect.

Carcinogenicity :

PROPYLENE GLYCOL (CAS: 57-55-6)

Carcinogenicity Test :

Negative.
No carcinogenic effect.

11.1.2. Mixture

Acute toxicity :

Species : Rat
LD50 > 2000 mg/kg
OECD Guideline 423 (Acute Oral toxicity Acute Toxic Class Method)
Species : Rat
LD50 > 2000 mg/kg
OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/skin irritation :

Species : Rabbit

Respiratory or skin sensitisation :

Not sensitizing.

Species : Guinea pig

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 111-42-2 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 64-17-5 : IARC Group 1 : The agent is carcinogenic to humans.

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SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

DIFENACOUM (ISO) (CAS: 56073-07-5)

Fish toxicity :

LC50 = 0.064 mg/l
Factor M = 10
Species : Oncorhynchus mykiss
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 0.52 mg/l
Factor M = 1
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.8 mg/l
Factor M = 1
Duration of exposure : 72 h

PROPYLENE GLYCOL (CAS: 57-55-6)

Fish toxicity :

LC50 = 40613 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 18340 mg/l
Species : Ceriodaphnia dubia
Duration of exposure : 48 h
EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)

NOEC = 13030 mg/l
Species : Ceriodaphnia dubia
Duration of exposure : 7 days

Algae toxicity :

ECr50 = 19000 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 96 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

DIFENACOUM (ISO) (CAS: 56073-07-5)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

PROPYLENE GLYCOL (CAS: 57-55-6)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

PARAFFINE ET CIRE D'HYDROCARBURE (CAS: 8002-74-2)

Biodegradability :

Non-rapidly degradable.
DBO5/DCO < 0.5

12.3. Bioaccumulative potential

No data available.

12.3.1. Substances

PROPYLENE GLYCOL (CAS: 57-55-6)

Octanol/water partition coefficient :

log K_{ow} = -1.07
OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Bioaccumulation :

BCF = 0.09

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12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

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SECTION 15 : REGULATORY INFORMATION

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

Classification and labelling information included in section 2:

The following regulations have been used:

Container information:

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

Particular provisions :

No data available.

Labelling for biocidal products (Regulation (UE) n° 528/2012) :

Name	CAS	%	Product-type
DIFENACOUM (ISO)	56073-07-5	0.025 g/kg	14

Product-type 14 : Rodenticides.

15.2. Chemical safety assessment

No data available.

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SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

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.

Abbreviations and acronyms :

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.