

# Safety Data Sheet

## RUBY GRAIN

Safety Data Sheet dated 18/7/2017, version 1

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

#### 1.1. Product identifier

Trade name: **RUBY GRAIN**

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

Recommended use:

Rodenticide - Biocidal use

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

Company:

LODI UK  
Pensnett Trading Estate 3rd Avenue  
West Midlands  
DY6 7FD KINGSWINFORD United Kingdom  
Tel. 00 44 1384 404242

Competent person responsible for the safety data sheet:  
fds@lodi.fr

#### 1.4. Emergency telephone number

National Poisons Information Service (NPIS)  
Phone number : 0344 892 0111

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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

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### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None  
 Other Hazards:  
 No other hazards  
 SECTION 2: Hazards identification





## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not available

### 3.2. Mixtures

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

Qty	Name	Ident. Number	Classification
50 ppm	Difenacoum	Index number: 607-157-00-X CAS: 56073-07-5 EC: 259-978-4	 3.9/1 STOT RE 1 H372  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410  3.1/2/Oral Acute Tox. 2 H300

## 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 skin or eye contact, immediately and thoroughly wash with water.

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.

In case of Ingestion:

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

In case of ingestion, rinse mouth with water.

Do not induce vomiting.

Immediately consult a physician and show the label.

In case of exposure, contact the nearest poison centre.

In case of Inhalation:

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

In case of inhalation, breath fresh air and have a rest. In case of faintness, consult a physician and show the label.

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

None

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

Treatment:

Antidote = Vitamin K1, under medical supervision

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### **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.

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## **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**

See also section 8 and 13

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store away from light.

Keep out of reach of children

Keep away from food and drink and animal feeding stuffs

Store in the original container

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

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Instructions as regards storage premises:  
Adequately ventilated premises.

### 7.3. Specific end use(s)

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

Not available

PNEC Exposure Limit Values

Not available

### 8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Wearing gloves is recommended.

Wash hands after handling.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

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:	Red Grain	OPPTS 830.6302 OPPTS 830.6302	--
Odour:	Characteristic	--	--
Odour threshold:	Not available	--	--
pH:	6.7 (1% in water)	CIPAC MT191	--
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 available	--	--
Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--

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Relative density:	0.7 (pour density) 0.76 (tap density)	MT 186	--
Solubility in water:	Not available	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not self-ignitable	EC A.16	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	Not explosive	EC A.14	--
Oxidizing properties:	Not oxidizing	EC A.17	--

### 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

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the mixture:

#### **RUBY GRAIN**

##### a) acute toxicity:

Test: LD50 - Route: dermal - Species: Rat : > 2000 mg/Kg

Test: LD50 - Route: oral - Species: Rat : > 2000 mg/Kg

##### b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit : Non irritating

##### c) serious eye damage/irritation:

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- Test: Eye Irritant - Route: ocular - Species: Rabbit : Non irritating  
d) respiratory or skin sensitisation:  
Test: Skin Sensitization - Route: dermal - Species: Guinea Pig : Non skin sensitizer

Toxicological information of the main substances found in the mixture:

**Difenacoum - CAS: 56073-07-5**

- a) acute toxicity:

Test: LD50 - Route: dermal - Species: Rat (female) : 51.54 mg/Kg  
Test: LD50 - Route: oral - Species: Rat (male) : 1.8 mg/Kg  
Test: LD50 - Route: Inhalation - Species: Rat : 3.646 – 5.848 µg/L - Duration: 4h

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

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

##### **Difenacoum**

- a) Aquatic acute toxicity:

Endpoint: LC50 Rainbow Trout = 0.064 mg/L - Duration h: 96  
Endpoint: LC50 Daphnia magna = 0.52 mg/L - Duration h: 48  
Endpoint: ErC50 Algae = 0.51 mg/L - Duration h: 72

#### 12.2. Persistence and degradability

Difenacoum is not readily biodegradable

#### 12.3. Bioaccumulative potential

Difenacoum has a high potential for bioaccumulation

#### 12.4. Mobility in soil

Not available

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Other adverse effects

None

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### 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.

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**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**

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

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**SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII

Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

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)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

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### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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### SECTION 16: Other information

Full text of phrases referred to in Section 3:

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.

H300 Fatal if swallowed.

Hazard class and hazard category	Code	Description
Acute Tox. 2	3.1/2/Oral	Acute toxicity (oral), Category 2
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

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

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
CSR:	Chemical safety report
DNEL:	Derived No Effect Level.
EC50:	
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
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).
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.



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KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
UN:	United Nations
WGK:	German Water Hazard Class.