



Safety Data Sheet dated 28/3/2018, version 1

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

### 1.1. Product identifier

Trade name: JADE GRAIN 25

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

Recommended use:

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

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

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



**Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.**

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

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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
- P220 Keep/store away from food, drink and animal feedingstuffs.
- P260 Avoid breathing dust.
- P262 Do not get on skin.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves. (Professional only)
- P301+310 IF SWALLOWED: Immediately call a POISON CENTRE 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.

**Provisions:**

None

**Contains**

Bromadiolone

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

None

### 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
25 ppm	Bromadiolone	CAS: 28772-56-7 EC: 249-205-9	 3.1/1/Oral Acute Tox. 1 H300  3.7/1B Repr. 1B H360  3.1/1/Dermal Acute Tox. 1 H310  3.1/1/Inhal Acute Tox. 1 H330  3.9/1 STOT RE 1 H372  4.1/A1 Aquatic Acute 1 H400 M=1.  4.1/C1 Aquatic Chronic 1 H410 M=1.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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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.

Rinse the eye slowly and gently with water for 15-20 minutes

In case of Ingestion:

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

In cases of acute distress, contact the 15 (or 112).

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.

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

Internal haemorrhage in case of ingestion

#### 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 = Vitamin K1, under medical supervision

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### 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.

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#### 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

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.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

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

Keep in a dry and cool place.  
Store in original container, tightly closed  
Keep out of reach of children  
Keep away from food and drink and animal feeding stuffs  
Store away from light.  
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)

None in particular

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### 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  
Bromadiolone - CAS: 28772-56-7  
Target: Fresh Water - Value: 3.8E-4 mg/l  
Target: Microorganisms in sewage treatments - Value: 1.33 mg/l  
Target: Freshwater sediments - Value: 0.83 mg/kg  
Target: Soil - Value: 0.099 mg/kg

#### 8.2. Exposure controls

Eye protection:

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Avoid contact with eyes

Protection for skin:  
Provide skin protection adapted to the conditions of use

Protection for hands:  
Avoid contact with skin  
Amateurs and non-professionals: the gloves are recommended. Professionals : The gloves are mandatory.

Respiratory protection:  
Use adequate protective respiratory equipment.

Thermal Hazards:  
Keep away from sources of ignition, heat and direct sunlight

Environmental exposure controls:  
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:	Green grain	EPA OPPTS 830.6303 - EPA OPPTS 830.6302	Colour: Green (10GY 5/6)
Odour:	Cereals	EPA OPPTS 830.6304	--
Odour threshold:	Not available	--	--
pH:	6.91	CIPAC MT 75.3	1% in water after 10 minutes at 20°C
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, Annex, A.10 (solid)	--
Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	1.377	OECD 109	--
Solubility in water:	Not available	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not available	--	--

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Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	Not explosive	Examination of components	--
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

### 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 product:

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#### a) acute toxicity:

Test: LD50 - Route: oral - Species: Rat : > 2000 mg/Kg - Source: OCDE n°423

Test: LD50 - Route: dermal - Species: Rat : > 2000 mg/Kg - Source: OCDE n°402

#### b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit : Non irritating - Source: OCDE n°404

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

Test: Eye Irritant - Route: ocular - Species: Rabbit : Non irritating - Source: OCDE n°405

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d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: dermal - Species: Guinea Pig : Non skin sensitizer - Source: OCDE n°406

Adverse health effects

May causes damage to the blood through prolonged or repeated exposure

Toxicological information of the main substances found in the product:

Bromadiolone - CAS: 28772-56-7

a) acute toxicity:

Test: LD50 - Route: oral - Species: Rat : = 1.31 mg/Kg - Source: Product Assessment Report - Notes: male and female rats combined) 95% confidence limits 1.17 to 1.49 mg/kg bw/d

Test: LD50 - Route: dermal - Species: Rabbit : = 23.31 mg/Kg - Source: Product Assessment Report - Notes: male and female rabbits combined

Test: LD50 - Route: dermal - Species: Rat : = 1.71 mg/Kg - Source: Product Assessment Report - Notes: male and female rats combined

Test: LC50 - Route: Inhalation - Species: Rat : = 0.43 18206.ugL - Source: Product Assessment Report - Notes: males and females combined

g) reproductive toxicity:

Test: LOAEL - Route: oral - Species: Rabbit : = 2 18206.ugkgbw/d - Source: Product Assessment Report - Notes: Maternal toxicity

Test: NOAEL - Route: oral - Species: Rabbit : = 4 18206.ugkgbw/d - Source: Product Assessment report - Notes: Developmental toxicity

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.

Bromadiolone - CAS: 28772-56-7

a) Aquatic acute toxicity:

Endpoint: ErC50 Algae = 1.14 mg/L - Duration h: 72

Endpoint: LC50 Fish = 2.86 mg/L - Duration h: 96

Endpoint: EC50 Daphnia magna = 5.79 mg/L - Duration h: 48

c) Bacteria toxicity:

Endpoint: EC50 Activated sludge = 132.8 mg/L - Duration h: 3

### 12.2. Persistence and degradability

Not available

**12.3. Bioaccumulative potential**

Bromadiolone - CAS: 28772-56-7

Bioaccumulation: Bioaccumulative - Test: Kow - Partition coefficient 3.8

**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. Send to authorised disposal plants or for incineration under controlled conditions. 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**

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

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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)



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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)  
 Regulation (EU) n. 2016/918 (ATP 8 CLP)  
 Regulation (EU) n. 2016/1179 (ATP 9 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

### 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:

H300 Fatal if swallowed.  
 H360 May damage fertility or the unborn child if inhaled and in contact with skin.  
 H310 Fatal in contact with skin.  
 H330 Fatal if inhaled.  
 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.

Hazard class and hazard category	Code	Description
Acute Tox. 1	3.1/1/Dermal	Acute toxicity (dermal), Category 1
Acute Tox. 1	3.1/1/Inhal	Acute toxicity (inhalation), Category 1
Acute Tox. 1	3.1/1/Oral	Acute toxicity (oral), Category 1
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

## Safety Data Sheet

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This safety data sheet has been completely updated in compliance to Regulation 2015/830. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
STOT RE 2, H373	Calculation method

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.
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.



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