

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 04.09.2009

Version: 1.0

Product: **KLERAT PELLETS**

(30471524/SDS\_GEN\_GB/EN)

Date of print 05.02.2010

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## 1. Substance/preparation and company identification

### **KLERAT PELLETS**

Use: rodenticide, biocide

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## 2. Hazard identification

### **Possible Hazards**

No specific dangers known, if the regulations/notes for storage and handling are considered.

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### 3. Composition/information on ingredients

#### Chemical nature

rodenticide, Bait, biocide

Contains: Brodifacoum (Content (W/W): 0.005 %)

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### 4. First-Aid Measures

#### General advice:

Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm. Seek medical attention if necessary.

#### On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

#### On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### On ingestion:

Rinse mouth immediately with water. Do not induce vomiting. Seek medical attention if necessary.

#### Note to physician:

Symptoms: coagulation disorders, blood in urine, internal bleeding, shock, weakness, loss of appetite

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: Vitamin K1 preparation as antidote. Medical monitoring for at least 24-48 hours.

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### 5. Fire-Fighting Measures

#### Suitable extinguishing media:

water spray, dry extinguishing media, foam, carbon dioxide

#### Specific hazards:

carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

#### Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

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**Further information:**

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

**Personal precautions:**

Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

**Environmental precautions:**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

**Methods for cleaning up or taking up:**

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

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## 7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. If dead and/or dying rats or mice are found during and after the control program, these must be cleared away immediately in order to avoid secondary poisoning phenomena. Do not apply in the open (use bait boxes, bait cartons or foil bags).

**Protection against fire and explosion:**

The product is combustible but not self combustible not explosive and does not add to the spreading of fire. Dust can form an explosive mixture with air. Avoid dust formation. Avoid deposition of dust. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Protect against moisture. Keep away from heat. Protect from direct sunlight. Keep locked-up and out of reach of children.

**Storage stability:**

Storage duration: 24 Months

Protect from temperatures above: 30 °C

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## 8. Exposure controls and personal protection

Components with workplace control parameters

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57-50-1: sucrose

TWA value 10 mg/m<sup>3</sup> (EH40 (UK))STEL value 20 mg/m<sup>3</sup> (EH40 (UK))

1332-58-7: Kaolin

TWA value 2 mg/m<sup>3</sup> (EH40 (UK)), Respirable dust

### Personal protective equipment

#### Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

#### Hand protection:

Although gloves are not required for the safe use of the product, they are recommended for protection against rodent-borne diseases.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Keep separated from food stuffs and feed stocks. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

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## 9. Physical and Chemical Properties

Form: solid, pellets  
Colour: red  
Odour: almost odourless

#### Melting point:

The substance / product decomposes therefore not determined.

#### Flash point:

not applicable

#### Flammability:

does not ignite

#### Self ignition:

not self-igniting

#### Explosion hazard:

not explosive

Fire promoting properties: not fire-propagating

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Density: approx. 0.67 g/cm<sup>3</sup>  
(approx. 20 °C)  
Relative density: approx. 0.69  
Bulk density: 0.71 kg/m<sup>3</sup>  
(approx. 20 °C)

Solubility in water: not soluble

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## 10. Stability and Reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:  
No substances known that should be avoided.

Corrosion to metals: No data available.

Hazardous reactions:  
No hazardous reactions when stored and handled according to instructions.  
The product is chemically stable.

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Acute toxicity

*Information on: Brodifacoum*  
*Experimental/calculated data:*  
*LD50 rat (oral): 0.418 mg/kg*  
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*Information on: Brodifacoum*  
*Experimental/calculated data:*  
*LC50 rat (by inhalation): 0.00305 - 0.00486 mg/l 4 h*  
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*Information on: Brodifacoum*  
*Experimental/calculated data:*  
*LD50 rat (dermal): 3.16 mg/kg*  
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### Irritation

*Information on: Brodifacoum*  
*Experimental/calculated data:*  
*Skin corrosion/irritation rabbit: non-irritant*

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*Information on: Brodifacoum*  
*Experimental/calculated data:*  
*Serious eyes damages/irritation rabbit: non-irritant*  
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### **Respiratory/Skin sensitization**

*Information on: Brodifacoum*  
*Assessment of sensitization:*  
*May cause sensitization by skin contact.*  
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### **Other relevant toxicity information**

Misuse can be harmful to health. The product has not been tested. The statement has been derived from the properties of the individual components.

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## **12. Ecological Information**

### **Ecotoxicity**

*Information on: Brodifacoum*  
*Toxicity to fish:*  
*LC50 (96 h) 0.04 mg/l, Oncorhynchus mykiss*  
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*Information on: Brodifacoum*  
*Aquatic invertebrates:*  
*LC50 (48 h) > 0.001 mg/l, Daphnia magna*  
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*Information on: Brodifacoum*  
*Aquatic plants:*  
*EC50 (72 h) > 0.001 mg/l (growth rate), Pseudokirchneriella subcapitata*  
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### **Persistence and degradability**

*Information on: Brodifacoum*  
*Assessment biodegradation and elimination (H2O):*  
*Not readily biodegradable (by OECD criteria).*  
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### **Additional information**

Other ecotoxicological advice:  
The product has not been tested. The statement has been derived from the properties of the individual components.

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### 13. Disposal Considerations

Must be dumped in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (GB)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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### 14. Transport Information

#### Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

#### Inland waterway transport

ADNR

Not classified as a dangerous good under transport regulations

#### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

#### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

Regulations of the European union (Labelling) / National legislation/Regulations

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#### EEC Directives:

The product does not require a hazard warning label in accordance with EC Directives.

#### Other regulations

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

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## **16. Other Information**

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Vertical lines in the left hand margin indicate an amendment from the previous version.

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: [product-safety-north@basf.com](mailto:product-safety-north@basf.com)

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.