

# Safety data sheet

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

Date / Revised: 28.08.2009

Version: 1.0

Product: **RIDAK LIQUID CONC.**

(30547386/SDS\_GEN\_EU/EN)

Date of print 20.06.2011

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## 1. Substance/preparation and company identification

### **RIDAK LIQUID CONC.**

Use: technical preconcentrate

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

Telefax number: +49 621 60-28566

E-mail address: Produktinformation-Pflanzenschutz@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazard identification

### **Possible Hazards**

Harmful by inhalation, in contact with skin and if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 3. Composition/information on ingredients

Chemical nature

Product for the production of: rodenticide, Bait

#### Hazardous ingredients

according to Directive 1999/45/EC

Difenacoum

Content (W/W): 0.25 %

CAS Number: 56073-07-5

Hazard symbol(s): T+, N

R-phrase(s): 26/27/28, 48/23/24/25, 50/53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

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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:

Keep patient calm, remove to fresh air, seek medical attention.

#### 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. If swallowed, seek medical advice immediately and show this container or label.

#### Note to physician:

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

Treatment: Symptomatic treatment (decontamination, vital functions).

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

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## 5. Fire-Fighting Measures

#### Suitable extinguishing media:

carbon dioxide, dry extinguishing media, water fog, water spray, foam

#### Unsuitable extinguishing media for safety reasons:

water jet

#### 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.

Further information:

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

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## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

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

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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## 7. Handling and Storage

### Handling

No special measures necessary if stored and handled correctly.

Protection against fire and explosion:

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: Keep away from heat. Protect from direct sunlight. Keep only in the original container in a cool, well-ventilated place.

Storage stability:

Storage duration: 24 Months

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## 8. Exposure controls and personal protection

### Personal protective equipment

#### Respiratory protection:

Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

#### 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:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Remove contaminated clothing immediately and dispose of safely. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. 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.

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## 9. Physical and Chemical Properties

Form: liquid, viscous  
Colour: dark blue  
Odour: odourless

### *Information on: Water*

*boiling temperature:* 100 °C

### Flash point:

Substance/product is non-flammable.

### *Information on: polyethylene glycol*

*Ignition temperature:* approx. 400 °C

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

### *Information on: polyethylene glycol*

*Vapour pressure:* < 0.01 mmHg  
(20 °C)

Density: 1 - 1.2 g/cm<sup>3</sup>

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Solubility in water: miscible  
Partitioning coefficient n-octanol/water (log Pow):  
not applicable

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## 10. Stability and Reactivity

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

Hazardous reactions:  
No hazardous reactions if stored and handled as prescribed/indicated.  
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: Difenacoum*  
*Experimental/calculated data:*  
*LD50 rat (oral): 1.8 mg/kg*  
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*Information on: Difenacoum*  
*Experimental/calculated data:*  
*LC50 rat (by inhalation): 0.00346 - 0.005848 mg/l 4 h*  
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*Information on: Difenacoum*  
*Experimental/calculated data:*  
*LD50 rat (dermal): 63 mg/kg*  
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### Irritation

Assessment of irritating effects:  
Not irritating to eyes and skin.

### Respiratory/Skin sensitization

*Information on: Difenacoum*  
*Experimental/calculated data:*  
*Guinea pig maximization test* : Skin sensitizing effects were not observed in animal studies.  
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### Germ cell mutagenicity

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*Information on: Difenacoum*

*Assessment of mutagenicity:*

*The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.*

### **Other relevant toxicity information**

Misuse can be harmful to health.

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## **12. Ecological Information**

### **Ecotoxicity**

*Information on: Difenacoum*

*Toxicity to fish:*

*LC50 (96 h) 0.064 mg/l, *Oncorhynchus mykiss**

*Information on: Difenacoum*

*Aquatic invertebrates:*

*LC50 (48 h) 0.52 mg/l, *Daphnia magna**

*Information on: Difenacoum*

*Aquatic plants:*

*No observed effect concentration (72 h) 0.25 mg/l (growth rate), *Pseudokirchneriella subcapitata**

*Assessment of terrestrial toxicity:*

*Hazardous to birds and mammals.*

### **Persistence and degradability**

*Information on: Difenacoum*

*Assessment biodegradation and elimination (H<sub>2</sub>O):*

*Not readily biodegradable (by OECD criteria).*

### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The ecological data given are those of the active ingredient.

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## **13. Disposal Considerations**

Must be dumped or incinerated in accordance with local regulations.

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

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains DIFENACOUM)

RID

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains DIFENACOUM)

### Inland waterway transport

ADNR

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains DIFENACOUM)

### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
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### Air transport

IATA/ICAO

Hazard class: 9  
Packing group: III

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ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DIFENACOUM)

## 15. Regulatory Information

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

#### EEC Directives:

#### Hazard symbol(s)

N	Dangerous for the environment.
Xn	Harmful.

#### R-phrase(s)

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### S-phrase(s)

S1/2	Keep locked-up and out of reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S36/37	Wear suitable protective clothing and gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S57	Use appropriate container to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Hazard determining component(s) for labelling: DIFENACOUM

#### Other regulations

## 16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

T+	Very toxic.
N	Dangerous for the environment.
26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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

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.