

# Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 27.10.2004

Product: **STORM SECURE**

Version: 1.4

322 01 I

(30156512/SDS\_CPA\_EU/EN)

Date of print 22.04.2005

## 1. Substance/preparation and company identification

### STORM SECURE

Use: crop protection product, rodenticide

Company:

BASF Aktiengesellschaft

Unternehmensbereich Pflanzenschutz

67056 Ludwigshafen, Deutschland

Telephone: +49-621-60-79321/ 79145

Telefax number: +49-621-60-79519

E-mail address: [Produktinformation-Pflanzenschutz@basf-ag.de](mailto:Produktinformation-Pflanzenschutz@basf-ag.de)Emergency information:

Fire brigade BASF Ludwigshafen

Telephone: +49-621-60-43333

Telefax number: +49-621-60-92664

## 2. Composition/information on ingredients

Chemical nature

rodenticide, Bait

Hazardous ingredients

Flocoumafen

Content (W/W): 0.005 %

CAS Number: 90035-08-8

EC-Number: 421-960-0

INDEX-Number: 607-375-00-5

Hazard symbol(s): T+, N

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

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alpha-Cypermethrin

Content (W/W): 0.0002 %  
CAS Number: 67375-30-8  
Hazard symbol(s): T, N  
R-phrases: 25, 37, 48/22, 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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### 3. Hazard identification

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

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### 4. First-aid measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. 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 and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician:

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: Vitamin K1 preparation as antidote.

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### 5. Fire-fighting measures

Suitable extinguishing media:

dry extinguishing media, foam, water spray, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

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**Specific hazards:**

carbon monoxide, hydrogen fluoride, nitrogen oxides, toxic gas  
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:**

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. 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. 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 large amounts: Sweep/shovel up.

For residues: Contain with dust binding material and dispose of.

Avoid raising dust. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Collect waste in suitable containers, which can be labeled and sealed. 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:**

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.

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Further information on storage conditions: Keep locked-up and out of reach of children. Keep in a cool, well-ventilated place. Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability:  
Storage duration: 24 Months

Protect from temperatures above: 30 °C  
Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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## 8. Exposure controls and personal protection

### Personal protective equipment

#### Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. Particle filter Type P2 or FFP2, ( medium efficiency for solid and liquid particles e.g. EN143,149)

#### 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), polyvinylchloride (0.7 mm) and other

#### Eye protection:

Safety glasses with side-shields (frame goggles) (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 DIN-EN 465).

#### General safety and hygiene measures:

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:	solid, blocks
Colour:	blue
Ignition temperature:	235 °C
Bulk density:	0.60 - 0.68 kg/dm <sup>3</sup>
Solubility in water:	insoluble

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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.

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

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

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## 11. Toxicological information

LD50/oral/rat/male/female: > 5,000 mg/kg

*Information on: Flocoumafen*

LC50/by inhalation/rat: > 0.16 - < 1.4 mg/l / 4 h

*Information on: alpha-Cypermethrin*

LC50/by inhalation/rat: > 1.59 mg/l

*The test result applies only to the substance transferred into respirable aerosol (particles < 20 µm).*

LD50/dermal/rat/male/female: > 5,000 mg/kg

Primary skin irritation/rabbit: non-irritant

Primary irritations of the mucous membrane/rabbit: non-irritant

Sensitization/guinea pig: Skin sensitizing effects were not observed in animal studies.

Additional information:

Misuse can be harmful to health.

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## 12. Ecological information

### Ecotoxicity

Toxicity to fish:

Oncorhynchus mykiss/LC50 (96 h): > 4,000 mg/l

The product has not been tested. The statement has been derived from products of a similar structure and composition.

*Information on: Flocoumafen*

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*Toxicity to fish:**Oncorhynchus mykiss/LC50 (96 h): 0.091 mg/l**Lepomis macrochirus/LC50 (96 h): 0.112 mg/l***|** *Information on: alpha-Cypermethrin**Toxicity to fish:***|** *Oncorhynchus mykiss/LC50 (96 h): 0.0028 mg/l*  
-----*Aquatic invertebrates:**Daphnia magna/EC50 (48 h): 280 mg/l*

The product has not been tested. The statement has been derived from products of a similar structure and composition.

*Information on: Flocoumafen**Aquatic invertebrates:**Daphnia magna/EC50 (48 h): 0.17 mg/l**Information on: alpha-Cypermethrin**Aquatic invertebrates:**Daphnia magna/LC50 (48 h): 0.0001 - 0.0003 mg/l*  
-----*Information on: Flocoumafen**Aquatic plants:**Selenastrum capricornutum/EC50 (96 h): 1.1 mg/l**Information on: alpha-Cypermethrin**Aquatic plants:**Pseudokirchneriella subcapitata/EC50 (96 h): > 0.1 mg/l*  
-----**Persistence and degradability**Elimination information*Information on: Flocoumafen**Evaluation: Not readily biodegradable (by OECD criteria).**Information on: alpha-Cypermethrin**Evaluation: Not readily biodegradable (by OECD criteria).*  
-----**Additional information**

## Other ecotoxicological advice:

Do not discharge product into the environment without control.

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**13. Disposal considerations**

Must be dumped or incinerated in accordance with local regulations.

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Following completion of the control programme, any bait which has not been taken must be collected and disposed of.

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

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

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## 15. Regulatory information

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

#### Self classification:

S-phrase(s)	
S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.

Not subject to labelling in accordance with EEC Directives.

#### Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

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## 16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

T+	Very toxic.
N	Dangerous for the environment.
T	Toxic.
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.

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50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
25	Toxic if swallowed.
37	Irritating to respiratory system.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.