

# Safety data sheet

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

Date / Revised: 02.11.2011

Version: 3.0

Product: **STORM SECURE**

(ID no. 30492467/SDS\_GEN\_GB/EN)

Date of print 03.11.2011

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

## STORM SECURE

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

Relevant identified uses: rodenticide, biocide

### Details of the supplier of the safety data sheet

Company:BASF SE  
67056 Ludwigshafen  
GERMANYContact address:BASF plc  
PO Box 4, Earl Road, Cheadle Hulme,  
Cheadle, Cheshire  
SK8 6QG, UNITED KINGDOM

Telephone: +44 161 485-6222

E-mail address: product-safety-north@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Label elements

According to Regulation (EC) No 1272/2008 [CLP]

| Globally Harmonized System, EU (GHS)

| The product does not require a hazard warning label in accordance with GHS criteria.

According to Directive 67/548/EEC or 1999/45/EC

Classification/labelling in accordance with UK regulations.

S-phrase(s)

S1	Keep locked up.
S2	Keep out of the reach of children.
S7	Keep container tightly closed.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S44	If you feel unwell, seek medical advice (show the label where possible)
S49	Keep only in the original container.
S57	Use appropriate container to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.

### Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

▮ No need for classification according to GHS criteria for this product.

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

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

### Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Other Hazards (GHS):

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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## 3. Composition/Information on Ingredients

### Mixtures

Chemical nature

rodenticide, Bait, biocide

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

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## 4. First-Aid Measures

### Description of first aid measures

▮ Remove contaminated clothing.

If inhaled:

| Keep patient calm, remove to fresh air.

On skin contact:

| Wash thoroughly with soap and water.

On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

| Rinse mouth and then drink plenty of water.

### **Most important symptoms and effects, both acute and delayed**

Symptoms: coagulation disorders

Increased tendency to bleed.

In severe cases, massive bleeding from internal organs may result in circulatory shock, which could prove fatal.

The onset of symptoms is delayed for up to 4 days after uptake.

Hazards: The substance / product is an anticoagulant rodenticide with a coumarin-type mode of action.

### **Indication of any immediate medical attention and special treatment needed**

| Treatment: Symptomatic treatment (decontamination, vital functions).

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## **5. Fire-Fighting Measures**

### **Extinguishing media**

Suitable extinguishing media:  
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

### **Special hazards arising from the substance or mixture**

carbon monoxide, hydrogen fluoride, carbon dioxide, nitrogen oxides, toxic gas  
The substances/groups of substances mentioned can be released in case of fire.

### **Advice for fire-fighters**

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, protective equipment and emergency procedures

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.

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

### Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

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

Avoid raising dust. 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.

### Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## 7. Handling and Storage

### Precautions for safe 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). When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

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.

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## 8. Exposure Controls/Personal Protection

### Control parameters

#### Components with workplace control parameters

No occupational exposure limits known.

For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

### Exposure controls

#### Personal protective equipment

Respiratory protection:

Respiratory protection not required.

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:

Required when there is a risk of eye contact., 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. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	solid, blocks
Colour:	blue
Odour:	slight odour, paraffin-like
Odour threshold:	not determined
pH value:	not determined
Melting point:	not determined
Boiling point:	not determined
Flash point:	not applicable

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Evaporation rate:	not applicable	
Flammability:	does not ignite	(Directive 92/69/EEC, A.10)
Lower explosion limit:	not determined	
Upper explosion limit:	not determined	
Vapour pressure:	not determined	
Density:	approx. 1.27 g/cm <sup>3</sup> (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	not determined	
Solubility in water:	insoluble	
<i>Information on: Flocoumafen</i>		
Partitioning coefficient <i>n</i> -octanol/water (log Kow):	6.12	(OECD Guideline 107)
	(pH value: 7)	
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Self ignition:	Temperature: 267 °C	
Thermal decomposition:	not determined	
Viscosity, dynamic:	not applicable	
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.	(Directive 84/449/EEC, A.14)
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

**Other information**

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

**10. Stability and Reactivity****Reactivity**

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

**Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions**

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

**Conditions to avoid**

See MSDS section 7 - Handling and storage.

**Incompatible materials**

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

### **Hazardous decomposition products**

Hazardous decomposition products:

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

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## **11. Toxicological Information**

### **Information on toxicological effects**

#### Acute toxicity

Assessment of acute toxicity:

The product has not been tested. The statement has been derived from products of a similar structure or composition. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Inhalation is not likely in the available physical form.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg

(by inhalation): Not inhalable due to the physico-chemical properties of the product.

LD50 rat (dermal): > 5,000 mg/kg

#### Irritation

Assessment of irritating effects:

The product has not been tested. The statement has been derived from products of a similar structure or composition. Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

#### Respiratory/Skin sensitization

Assessment of sensitization:

The product has not been tested. The statement has been derived from products of a similar structure or composition. There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

#### Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

#### Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

#### Reproductive toxicity

##### Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

##### Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

##### Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

##### *Information on: Flocoumafen*

##### *Assessment of repeated dose toxicity:*

*Repeated exposure to small quantities may affect certain organs. Damages the coagulation system.*

#### Other relevant toxicity information

Misuse can be harmful to health.

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## 12. Ecological Information

### Toxicity

##### Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from products of a similar structure or composition. There is a high probability that the product is not acutely harmful to aquatic organisms.

##### Toxicity to fish:

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

##### Aquatic invertebrates:

EC50 (48 h) 280 mg/l, *Daphnia magna*

##### *Information on: Flocoumafen*

##### *Aquatic plants:*

*EC50 (72 h) >= 18.2 mg/l, Pseudokirchneriella subcapitata*

### Persistence and degradability

##### Assessment biodegradation and elimination (H2O):

The product has not been tested. The statement has been derived from the properties of the individual components.



**Information on: Flocoumafen**  
**Assessment biodegradation and elimination (H<sub>2</sub>O):**  
**Not readily biodegradable (by OECD criteria).** -----

### **Bioaccumulative potential**

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

**Information on: Flocoumafen**  
**Bioaccumulation potential:**  
**Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.**  
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### **Mobility in soil (and other compartments if available)**

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

**Information on: Flocoumafen**  
**Assessment transport between environmental compartments:**  
**Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.**  
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### **Results of PBT and vPvB assessment**

**Information on: Flocoumafen**  
**According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): potential PBT substance**  
**According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): potential vPvB substance**  
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### **Other adverse effects**

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

### **Additional information**

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## **13. Disposal Considerations**

### **Waste treatment methods**

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Must be disposed of or incinerated in accordance with local regulations.

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

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

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

ADN

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

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Keep in a safe place

Harmful to wildlife

Avoid all contact by mouth

For indoor use only

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Prevent access to the bait by children, birds and other animals, particularly dogs, cats, pigs and poultry.

Do not place bait where food, feed or water could become contaminated (except when used in sewers)

Wash hands and exposed skin before meals and after work.

Search for and remove rodent bodies at frequent<sup>®</sup> intervals during treatment (unless used in sewers).

Collect and dispose of the remains of bait and any remaining rodent bodies after treatment (unless used in sewers). You must ensure that you comply with legislation regarding the correct disposal of waste. For further guidance, contact the Environment Agency or your local Scottish Environment Protection Agency (SEPA) office.

(<sup>®</sup>Intervals will vary depending on formulation and treatment regime; therefore the user should refer to and comply with the manufacturer's guidelines).

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).

### **Chemical Safety Assessment**

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

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## **16. Other Information**

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.

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