

Safety data sheet

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

Date / Revised: 28.09.2009

Product: **STORM SECURE**

Version: 1.1

(30362991/SDS_GEN_GB/EN)

Date of print 29.09.2009

1. Substance/preparation and company identification

STORM SECURE

Use: rodenticide, biocide

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Contact address:

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Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Hazard identification

Possible Hazards

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

3. Composition/information on ingredients

Chemical nature

rodenticide, Bait, biocide

Hazardous ingredients

according to Directive 1999/45/EC

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: 26/27/28, 48/23/24/25, 50/53

alpha-cypermethrine

Content (W/W): 0.0002 %
CAS Number: 67375-30-8
EC-Number: 257-842-9
Hazard symbol(s): T, N
R-phrases: 20, 25, 37/38, 48/22, 50/53

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

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:

Symptoms: tiredness, loss of appetite, coagulation disorders

Hazards: The product contains a blood coagulation inhibitor.

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: Vitamin K1 preparation as antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

dry extinguishing media, foam, water spray, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon monoxide, hydrogen fluoride, carbon dioxide, 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.

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.

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.

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: 60 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.

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 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:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. 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.

9. Physical and Chemical Properties

Form:	solid, blocks
Colour:	blue
Odour:	slight odour, paraffin-like
pH value:	not applicable
Melting point:	not applicable
Flash point:	not applicable
Ignition temperature:	235 °C
Density:	not applicable
Bulk density:	0.60 - 0.68 kg/dm ³
Solubility in water:	insoluble
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, dynamic:	not applicable
Viscosity, kinematic:	not applicable

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.

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

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

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

Information on: Flocoumafen

Experimental/calculated data:

LC50 rat (by inhalation): 0.0008 - 0.007 mg/l 4 h

Information on: alpha-cypermethrine

Experimental/calculated data:

LC50 rat (by inhalation): 1.33 mg/l 4 h (OECD Guideline 403)

Tested as dust aerosol.

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious eyes damages/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Experimental/calculated data:

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

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Toxicity to fish:

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

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

Aquatic invertebrates:

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

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

Information on: *Flocoumafen*

Toxicity to fish:

LC50 (96 h) 0.071 mg/l, *Oncorhynchus mykiss*

LC50 (96 h) 0.112 mg/l, *Lepomis macrochirus*

Information on: *alpha-cypermethrine*

Toxicity to fish:

LC50 (96 h) 2,8 µg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 84/449/EEC, C. 1)

Information on: *Flocoumafen*

Aquatic invertebrates:

EC50 (48 h) 0.17 mg/l, *Daphnia magna*

Information on: *alpha-cypermethrine*

Aquatic invertebrates:

EC50 (48 h) 0,3 µg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Information on: *Flocoumafen*

Aquatic plants:

EC50 (72 h) \geq 18.2 mg/l, *Pseudokirchneriella subcapitata*

Information on: *alpha-cypermethrine*

Aquatic plants:

EC50 (96 h) > 100 µg/l, *Scenedesmus subspicatus* (OECD Guideline 201)

Persistence and degradability

Information on: *Flocoumafen*

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: *alpha-cypermethrine*

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Must be dumped or incinerated in accordance with local regulations.

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

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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.

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

15. Regulatory Information

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

Self classification:

S-phrase(s)

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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.

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

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

Recommended use: rodenticide, biocide

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

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.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
20	Harmful by inhalation.
25	Toxic if swallowed.
37/38	Irritating to respiratory system and skin.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

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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.