

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 08.07.2003

Product: **Storm**

Version: 1.1

(30131467/SDS_CPA_EU/EN)

Date of print 09.07.2003

1. Substance/preparation and company identification**Storm**Company:

BASF Aktiengesellschaft
Unternehmensbereich Pflanzenschutz
67056 Ludwigshafen, Deutschland
Telephone: +49-621-60-79321/ 79146
Telefax number: +49-621-60-79519
E-mail address: 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 ingredientsChemical nature

crop protection agents, rodenticide, Bait

Hazardous ingredients

Flocoumafen

Content (W/W): 0,005 %
CAS Number: 90035-08-8
EG-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-Cypermethrin

Content (W/W): 0,0002 %
CAS Number: 67375-30-8
Hazard symbol(s): T, N
R-phrases: 25, 20, 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.

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:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

Note to physician:

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, water fog

Specific hazards:

carbon monoxide, hydrogen fluoride, 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:

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 skin and eyes.

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: Sweep/shovel up.

For large amounts: Sweep/shovel up.

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

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: 24 Months

Protect from temperatures above: 30 °C

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter EN 143 Type P2, medium efficiency, (solid and liquid particles of harmful substances).

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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:

Tightly fitting safety goggles (splash 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:

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Store work clothing separately. Remove contaminated clothing immediately and dispose of safely. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or snuff-taking 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
Bulk density:	0,60 - 0,68 kg/dm ³
Solubility in water:	insoluble

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

LD50/oral/rat/male/female: > 5.000 mg/kg

LD50/dermal/rat/male/female: > 10.000 mg/kg

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Primary skin irritation/rabbit: non-irritant

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

Sensitization/Guinea pig maximization test:
no sensitizing effect

Additional information:

Misuse can be harmful to health.

12. Ecological information

Ecotoxicity

Information on: Flocoumafen

Toxicity to fish:

Oncorhynchus mykiss/LC50 (96 h): 0,091 mg/l

Information on: Flocoumafen

Aquatic invertebrates:

Daphnia magna/EC50 (48 h): 0,66 mg/l

Information on: Flocoumafen

Aquatic plants:

Selenastrum capricornutum/EC50 (96 h): 1,1 mg/l

13. Disposal considerations

Must be dumped 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.

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

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-phrases(s)	
S2	Keep 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.

not subject to labelling

Other regulations

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.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
25	Toxic if swallowed.
20	Harmful by inhalation.

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.