

PRODUCT: **STORM SECURE**

DATE: 27/05/2008

VERSION: 3

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1. **SUBSTANCE/PREPARATION AND COMPANY NAME**

Product Name: **STORM SECURE**
 HSE Number: 7277
 Company: BASF Agro B.V.
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 \ Switzerland

Tel: 0161 485 6222
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\ Emergency information: 0049 180 2273 112 (24 hours freephone)

2. **COMPOSITION/INFORMATION ON INGREDIENTS**

Use: Rodenticide.
 Formulation: A block bait containing 0.005% w/w flocoumafen.

<u>Hazardous ingredients</u>	<u>CAS No.</u>	<u>% w/w</u>	<u>Symbol</u>	<u>R Phrases</u>
\ Flocoumafen	90035-08-8	0.005	T+ (Very toxic) N (Dangerous for the environment)	R26/27/28, R48/23/24/25, R50/53
\ Alphacypermethrin	67375-30-8	0.0002	T (Toxic) N (Dangerous for the environment)	R20, R25, R37/38, R48/22, R50/53

3. **HAZARDS IDENTIFICATION**

Environmental hazards: FOR INDOOR USE ONLY.

\ 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).

\ Search for and remove rodent bodies at frequent* 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.

\ (*Intervals will vary depending on formulation and treatment regime; therefore the user should refer to and comply with the manufacturer's guidelines).

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Format based on 91/155/EEC

4. FIRST AID MEASURES

<u>General advice:</u>	If a person thinks that they have been exposed to this product and feels unwell, call a doctor or take them to a hospital. Remove all contaminated clothing. Keep them at REST away from source of contamination. DO NOT ALLOW smoking or eating. First aider should avoid becoming contaminated and wear protective clothing if necessary.
<u>Eye contact:</u>	Immediately irrigate affected eyes for at least 15 minutes under flowing water, with eyelids open.
<u>Skin contact:</u>	Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.
<u>Ingestion:</u>	DO NOT INDUCE VOMITING. Wash out mouth with clean water. Seek medical attention immediately.
<u>Inhalation:</u>	Keep person calm, remove to fresh air.
<u>Unconsciousness</u>	If danger of loss of consciousness, place person in recovery position. Apply artificial ventilation if necessary, but care must be taken to avoid contamination of the first aider.

GUIDE TO PHYSICIAN - general advice

Active ingredient group: Flocoumafen – coumarin anticoagulant

Toxic effects: Flocoumafen is an indirect anticoagulant. Poisoning by Storm Secure is most unlikely to occur except following deliberate ingestion of relatively large quantities, which is very difficult to achieve.

Symptoms of accidental over exposure: There is no documentation of pathological effects in humans.

Any unusual symptoms which occur after exposure (by any mode of entry) should be recorded and reported to BASF at Cheadle.

- (i) This product contains a water soluble dye. If ingested, or contact made with the skin, a stain may appear around the mouth or on contaminated skin indicating that exposure has occurred.
- (ii) Phytomenadione, Vitamin K₁, is antidotal.
- (iii) Determine prothrombin times not less than eighteen hours after consumption. If elevated, administer Vitamin K₁ in divided doses, 40 mg/day for adults, 20 mg/day for children. Continue until prothrombin time normalises.
- (iv) After withdrawal of the antidote, continue determination of prothrombin time for two weeks and resume treatment if elevation occurs in that time.
- (v) NB Vitamin K₃ is not effective.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media: Water spray, foam, dry chemical and carbon dioxide.
- \ Possible harmful fumes in a fire: Carbon monoxide, hydrogen fluoride, carbon dioxide, nitrogen oxides and toxic gases can be released. Avoid breathing smoke or fumes.
- Protective equipment: Self-contained breathing apparatus and protective clothing.
- Further information: Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the DEFRA publication "Code of practice for using plant protection products."

6. ACCIDENTAL RELEASE MEASURES

- If spilled: Wear prescribed protective clothing. Clear spillage immediately. Contain spillage, sweep up and collect contaminated material and place in a marked container for disposal. Thoroughly wash area of spillage. Dispose of contaminated materials as advised in the DEFRA publication "Code of practice for using plant protection products."
- Wash thoroughly immediately after handling spillages, or at once if contaminated.
- Personal protective equipment: See Section 8.
- Environmental precautions: 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.

7. HANDLING AND STORAGE

- Handling: Avoid all contact with the mouth. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Keep away from domestic animals.
- \ Protection against fire and explosion: Dust can form an explosive mixture with air. Avoid dust formation. Prevent electrostatic discharge. Fire extinguishers should be kept close by.
- \ Storage: Keep dry and frostproof in a suitable pesticide store. Store separately from food, drink and animal feed. Protect from temperatures above 30°C.

8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

(i) PRECAUTIONS (from product label)

AVOID ALL CONTACT BY MOUTH
 WASH HANDS AND EXPOSED SKIN before meals and after use.
 KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
 WHEN USING DO NOT EAT DRINK OR SMOKE.
 KEEP OUT OF REACH OF CHILDREN.
 Keep Locked up.
 Keep container tightly closed.
 Keep only in the original container.
 KEEP IN A SAFE PLACE.
 Where appropriate, secure the bait block at its placement site to reduce the likelihood of its removal by rodents or by surges of water if intended for use in sewers.
 This material and its container must be disposed of as hazardous waste.
 Use appropriate containment to avoid environmental contamination.
 IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

(iii) OCCUPATIONAL EXPOSURE LIMITS (OESs)

<u>Hazardous ingredients</u>	<u>Long term exposure limit</u>	<u>Short term exposure limit</u>
Not applicable		

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Form:	Solid, bait
Colour:	Blue
Odour:	Faint specific odour
Density:	0.60 – 0.68kg/l
Solubility in water:	Insoluble

10. **STABILITY AND REACTIVITY**

Hazardous reactions:	None provided product is correctly handled.
Substances to avoid:	Unknown.
Hazardous decomposition products:	No decomposition if stored and applied as directed.

11. **TOXICOLOGICAL INFORMATION**

Acute toxicity:

\	Ingestion:	LD50 oral (rat) > 5000 mg/kg
	Skin contact:	LD50 dermal (rat): > 5000 mg/kg
	Eye contact:	Non-irritant
	Sensitising potential:	No sensitising effect

12. ECOLOGICAL INFORMATION

Ecotoxic effects:

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

\ Rainbow trout (*Oncorhynchus mykiss*) LC50 96h: > 4000 mg/l
\ Daphnia EC/LC50 (48h): 280 mg/l

Flocoumafen

\ Rainbow trout (*Oncorhynchus mykiss*) LC50 96h: 0.071 mg/l
\ Algae EC/LC50 (96 h) 18.2 mg/l
Daphnia EC/LC50 (48h): 0.17 mg/l

Alpha-cypermethrin

\ Rainbow trout (*Oncorhynchus mykiss*) LC50 96h: 0.0028 mg/l
\ Algae EC/LC50 (72 h) > 0.1 mg/l
Daphnia EC/LC50 (48h): 0.0003 mg/l

13. DISPOSAL CONSIDERATIONS

Leaking containers: Damaged containers must be dealt with as soon as noticed by sealing them in impermeable containers.

Disposal of used containers: Follow the directions given in the DEFRA publication "Code of practice for using plant protection products."

Used, cleaned, crushed or punctured containers may be burned or buried under controlled conditions on farm, or will generally be accepted at licensed disposal sites.

14. TRANSPORT INFORMATION

Not classified as hazardous under transport regulations.

Pack size: 3 kg

15. REGULATORY INFORMATION

This product is approved under the "Control of Pesticides Regulations 1986" and is labelled accordingly.

R-phrases - see Section 3

S-phrases - see Section 8

The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

16. **OTHER INFORMATION**

For further medical advice Doctors should contact the National Poisons Information Service.

In an emergency further information can be obtained from the National Chemical Emergency Centre 01865 407 333 (24 hours).

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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.

The product has not been tested. The statements are based on the properties of the individual components.
