

# Safety Data Sheet

**BASF Safety Data Sheet**

Date / Revised: 15.02.2011 Version: 3.0 (30492467/SDS\_GEN\_EU/EN)

Product: STORM® SECURE

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## 1. Substance / preparation and company identification

### STORM® SECURE

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

Relevant identified uses: rodenticide, biocide

#### Company:

BASF New Zealand Limited  
3 Airpark Drive, Airport Oaks, Manukau,  
P.O. Box 407, Auckland 1140.  
Phone: + 64 9 255 4300  
Fax: + 64 9 255 4307  
E-mail address: reception.nz@basf.com

#### Emergency information:

**National Poisons Centre: 0800 764 766**

BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an Emergency Only)

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## 2. Hazard Identification

### Hazard classification

6.1D, 6.9B, 9.3C

#### Priority Identifier:

Warning. Keep out of reach of children

#### Secondary Identifiers:

6.1D May be harmful if swallowed.

6.9B May cause organ damage through prolonged or repeated oral exposure at high doses.

9.3C Harmful to terrestrial vertebrates. May be harmful to pets and domestic animals if swallowed.

### Other hazards

#### Assessment PBT / vPvB:

The product does not fulfil the criteria for PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative).

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### 3. Composition/Information on Ingredients

#### Chemical nature

Rodenticide, bait, biocide

#### Hazardous ingredients

Flocoumafen  
Content (W/W): 0.005 %  
CAS Number: 90035-08-8  
EC-Number: 421-960-0  
INDEX-Number: 607-375-00-5

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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:

Rinse mouth and then drink plenty of water.

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

Symptoms: coagulation disorders

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

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: Vitamin K1 (phytomenadione) is antidotal.

In cases of suspected poisoning, determine prothrombin time not less than 18 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. Treatment may be required daily for several weeks. Withdraw antidote with care and monitor prothrombin times for two weeks, and resume treatment if elevation occurs in that time.

Note: Vitamin K3 is not effective.

Domestic Animal Poisoning:

In cases of accidental poisoning consult a veterinarian who will advise of suitable Vitamin K1 antidote therapy.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
Dry powder, foam, water spray, 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.

### Methods and material for containment and cleaning 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 labelled and sealed. Incinerate or take to a special waste disposal site in accordance with local authority 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).

### APPROVED HANDLER:

Approved handlers as defined under the HSNO Act 1996 are not required for this product.

**SALE:**

For pack sizes greater than 3 kg, the product must be sold only by a person who has been approved by the ACVM Group (APPROVED PERSON).

For pack sizes greater than 3 kg, a register of sales must be kept (minimum of 3 years), recording who the product was sold to and the quantity sold.

**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 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.

**AGGREGATE STORAGE VOLUME THRESHOLDS:**

When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.

Location Certificate*:	Hazardous Atmosphere Zone*:	Fire Extinguishers:	Signage [Hazard Class & Emergency Action]:	Emergency Information:	Emergency Response Plan:	Secondary Containment:
NA	NA	NA	10,000 kg	3 kg	1000 kg	NA

\* Note: Farms  $\geq$  4 ha are exempt but with controls.

**DO NOT STORE OR LOAD WITH:**

Class 1 Explosive

**SEGREGATE FROM:**

Foodstuffs or Food Containers

**Segregation:** In store separate by at least 5 metres, on transport separate by at least 3 metres, in both cases horizontally. On vehicles a segregation device may be used: Check the Land Transport Rule Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional segregation. Refer to NZS5433 Sea Segregation for details.

**NOTE:** Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

**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 and personal protection

### Control parameters

Components with workplace control parameters  
No occupational exposure limits known.

### Exposure controls

#### Personal protective equipment

Respiratory protection:  
Respiratory protection not required.

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

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
Odour:	slight odour, paraffin-like
Flash point:	not applicable
Self-Ignition temperature:	267 °C
Bulk density:	0.60 - 0.68 kg/dm <sup>3</sup>
Solubility in water:	insoluble
Self ignition: Temperature:	267 °C
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

Bulk density:	0.60 - 0.68 kg/dm <sup>3</sup>
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## 10. Stability and reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.  
Corrosion to metals: No data available.

### 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 SDS section 7 - Handling and storage.

### Incompatible materials

Substances to avoid:  
No substances known that should be avoided.

### 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

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

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant  
Serious eye damage/irritation rabbit: non-irritant

#### Respiratory/Skin sensitization

Experimental/calculated data:  
Modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

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### Reproductive toxicity

Assessment of reproduction toxicity:

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

### Developmental toxicity

Assessment of teratogenicity:

In animal studies the substance did not cause malformations. The product has not been tested.

The statement has been derived from the properties of the individual components.

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

*Information on: Flocoumafen*

*Assessment of repeated dose toxicity:*

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

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### Other relevant toxicity information

Misuse can be harmful to health.

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## **12. Ecological Information**

### **Toxicity**

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.

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*Information on: Flocoumafen*

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

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### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

Readily biodegradable (according to OECD criteria).

### **Bioaccumulative potential**

Bioaccumulation potential:

Accumulation in organisms is not to be expected.

### **Mobility in soil (and other compartments if available)**

Assessment transport between environmental compartments:

No data available.

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### Results of PBT and vPvB assessment

The product does not fulfil the criteria for PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative).

### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## 13. Disposal Considerations

Container:

Empty containers should not be re-used but disposed of safely. Ensure container is completely empty. Scrub and triple rinse empty container and recycle through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill.

Product:

Dispose of this product only by using according to the label or at an approved landfill. Do NOT burn product.

Do NOT contaminate surface water with chemical or empty container.

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## 14. Transport information

Commercial transport:

Not classified as Dangerous Goods for Land/rail (ADR/RID), sea (IMDG/GGVSee) and air transport (ICAO/IATA).

Public transport:

Do NOT carry more than 3 kg of this product on a passenger service vehicle.

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## 15. Regulatory information

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

#### Regulations of the European Union (Labelling) / National Legislation/Regulations

#### Chemical Safety Assessment

A chemical safety assessment acc. to art. 14 of Regulation (EC) No 1907/2006 is not required, because art. 15 of the same regulation applies.

#### Label elements

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

S-phrases)

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.



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## **NZ Regulations**

Approved pursuant to the HSNO Act 1996, Code HSR001601.  
See [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for approval controls.

Registered pursuant to the ACVM Act 1997, No. V9219.  
See [www.nzfsa.govt.nz/acvm/](http://www.nzfsa.govt.nz/acvm/) for registration conditions.

MAF (formerly NZFSA) Approved Type C (All animal product except dairy).  
AsureQuality Assessed for Use in Food/Beverage/Dairy Factories Category B.

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## **16. Other information**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

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

<p><b>DISCLAIMER:</b> 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.</p>
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