

# Safety Data Sheet

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BASF Safety Data Sheet

Date / Revised: 03.08.2023

Version: 3.0

Product: **STORM® SECURE**

(Ref ID no. 30618895/SDS\_CPA\_NZ/EN)

## 1. Identification

### Product identifier

**STORM® SECURE**

### Recommended uses and restrictions on use (if any)

#### Recommended use:

crop protection product, rodenticide, biocide.

#### Restricted use:

not applicable

### Manufacturer / Supplier

BASF New Zealand Limited  
5E City Works Depot,  
77 Cook Street  
Auckland 1010  
NEW ZEALANDPhone: + 64 9 255 4300  
0800 932 273

E-mail address: reception@basf-nz.co.nz

### Emergency telephone number

National Poisons Centre: 0800 764 766  
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)

## 2. Hazard Identification

### Classification of the substance or mixture

Acute toxicity (oral) : Category 4

Specific target organ toxicity - repeat exposure : Category 2

Hazardous to terrestrial vertebrates

### GHS Label Elements, including Precautionary Statements:

#### Signal Word:

WARNING.

#### Pictograms:



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GHS Hazard Statements

- H302 : Harmful if swallowed.  
 H373 : May cause damage to organs through prolonged or repeated exposure.  
       : Hazardous to terrestrial vertebrates.

GHS Precautionary Statements (Prevention)

- P102 : Keep out of reach of children.  
 P103 : Read label before use.  
 P260 : Do not breathe mist, vapours and spray.  
 P264 : Wash hands and face thoroughly after handling.  
 P270 : Do not eat, drink or smoke when using this product.

GHS Precautionary Statements (Response)

- P101 : If medical advice is needed, have product container or label at hand.  
 P301+P312 : IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
 P330 : Rinse mouth.  
 P314 : Get medical advice / attention if you feel unwell.

GHS Precautionary Statements (Storage)

No specific storage requirements.

GHS Precautionary Statements (Disposal):

- P501 : Dispose of contents/container to hazardous or special waste collection point.  
 Information regarding disposal considerations can be found in section 13.

**According to UN GHS criteria**

Hazard determining component(s) for labelling: Flocoumafen

**Other hazards**

No other hazards known.

See section 12 - Results of PBT and vPvB assessment.

To avoid risks to human health and the environment, comply with the instructions for use.

**3. Composition/Information on Ingredients****Substances**

Not applicable

**Mixtures**Hazardous ingredients (GHS)

According to UN GHS criteria

## Flocoumafen

Content (W/W): 0.005%  
 CAS Number: 90035-08-8

## Wheat flour

Content (W/W): <75%  
 CAS Number: 130498-22-5

## Paraffin waxes and hydrocarbon waxes

Content (W/W): <30%  
 CAS Number: 8002-74-2

## 4. First-Aid Measures

### Description of necessary first aid measures

#### General advice:

Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

#### 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:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

### 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:

Treat according to symptoms (decontamination, vital functions).

#### Antidote:

Vitamin K1 preparation as antidote.

#### Medical advice:

Contact the National Poisons and Hazardous Chemicals Information centre.

Phone 0800 POISON (0800 764 766).

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## 5. Fire-Fighting Measures

### Suitable extinguishing media

Foam, water spray, dry powder

### Unsuitable extinguishing media for safety reasons

carbon dioxide

### Specific hazards

carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride, nitrogen oxides, halogenated compounds, metal oxides, silica compounds, cyanides, sulfur oxides.

The substances/groups of substances mentioned can be released in case of fire.

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.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and chemical-protective clothing.

**Precautions for fire-fighters**

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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**

Avoid dust formation.  
Use personal protective clothing.  
Avoid contact with the skin, eyes and clothing.

**Environmental precautions**

Do not discharge into the subsoil/soil.  
Do not discharge into drains/surface waters/groundwater.

**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.

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

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## 7. Handling and Storage

**Precautions for safe handling**

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

If dead and / or dying rats and 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 – cover bait points or use bait boxes.

**Conditions for safe storage, including any incompatibilities**

Segregate from foods and animal feeds.  
Odour sensitive: segregate from products releasing odours.

Further information on storage conditions:

Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability: 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.

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## 8. Exposure Controls/Personal Protection

### Control parameters

#### Occupational exposure limits

Component:	Paraffin waxes and hydrocarbon waxes
CAS Number:	8002-74-2
TWA Value:	2 mg/m <sup>3</sup> (source: ACGIHTLV), fumes and smoke
TWA Value:	2 mg/m <sup>3</sup> (source: OEL NZ / WES 2022), fumes and smoke

### Engineering controls

Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with high efficiency for solid and liquid particles (eg, EN 13 or 149, Type P3 or FFP3)

#### Hand protection:

Protective gloves (EN ISO 374-1) are required for the safe handling of this product and are also recommended for protection against rodent-borne diseases.

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

Manufacturer's directions for use should be observed because of great diversity of types.

#### 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

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.

## 9. Physical and Chemical Properties

Form:	Solid, blocks
Colour:	Blue
Odour:	Almost odourless, faint odour, fresh cut grass
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	Approx. 4 – 7 (20°C)
Melting point:	>64°C
	The statements are based on the properties of the individual components.
Boiling point:	>300°C
	The statements are based on the properties of the individual components.
Flash point:	Not applicable, the product is a solid.
Evaporation rate:	Not applicable
Flammability:	Not applicable

Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Self ignition temperature:	267°C
Self heating ability:	It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.
Vapour pressure:	Not applicable
Density:	Approx. 1.27 g/cm <sup>3</sup> (20°C)
Relative vapour density (air):	Not applicable
Solubility in water:	insoluble
Partitioning coefficient n-octanol/water (log Kow):	Not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed / indicated.
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.
Viscosity, dynamic:	Not applicable the product is a solid.

## 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 SDS section 7 - Handling and storage.

### Incompatible materials / Substances to avoid

Strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

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

## 11. Toxicological Information

### Acute toxicity

#### Assessment of acute toxicity:

Virtually non-toxic after a single ingestion. Virtually non-toxic by inhalation. Virtually non-toxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): >5000 mg/kg

LC50 rat (by inhalation): not inhalable due to the physico-chemical properties of the product.

LD50 rat (dermal): >5000 mg/kg

**Skin Corrosion / Irritation**Assessment of irritating effects:

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

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

**Serious Eye Damage / Irritation**Assessment of irritating effects:

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

Experimental/calculated data:

Serious eye damage/irritation rabbit: Non-irritant.

**Respiratory or Skin sensitization**Assessment of sensitization:

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

Experimental/calculated data:

Modified Buehler test guinea pig: non-sensitizing.

**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.

### Specific target organ toxicity (single exposure)

#### Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: 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)

#### 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..

### Aspiration hazard

No aspiration hazard expected.

### Other relevant toxicity information

Misuse can be harmful to health.

## 12. Ecological Information

### Ecotoxicity

#### Assessment of aquatic toxicity:

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

Information below is on the active ingredient: Flocoumafen

#### Toxicity to fish:

LC50 (96 h): 0.067 mg/l, *Oncorhynchus mykiss*

#### Chronic toxicity to fish:

NOEC (28 d): <0.1 mg/l, *Brachydanio rerio*.

#### Aquatic invertebrates:

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

#### Aquatic plants:

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

EC10 (72 h) >18.2 mg/l, growth rate, *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.

#### **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:

Bioconcentration factor: >2,000

Accumulation in organisms is expected.

#### **Mobility in soil**

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.

#### **Results of PBT and vPvB assessment**

The product contains a potential PBT (persistent/bioaccumulative/toxic) substance.

The product contains a potential vPvB (very persistent/very bioaccumulative) substance.

#### **Other adverse effects**

Other ecotoxicological advice:

Must not be discharged into the environment.

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## **13. Disposal Considerations**

#### **Container:**

DO NOT reuse this container for any purpose. Ensure container is completely empty and make it unsuitable for further use. Scrub and triple rinse empty container and recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)). Otherwise crush and bury in a suitable landfill.

#### **Product:**

For information on disposal of unused, unwanted product, contact the local council.

#### **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**

#### **Domestic transport:**

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

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UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Marine pollutant:	Not applicable
HAZCHEM:	Not applicable
Special precautions when transporting the substance:	Not applicable

## 15. Regulatory Information

### HSNO Approval Number

HSR001601.

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

### Tolerable Exposure Limit or Environmental Exposure Limit

TEL:	Not applicable
EEL:	Not applicable

### Relevant Regulatory Requirements

Qualifications:	Not required
Certified Handler:	Not required
Tracking:	Not required
Record Keeping:	Not required
Controlled substance licence:	Not required

### ACVM Registration

V009219

See [www.foodsafety.govt.nz/acvm](http://www.foodsafety.govt.nz/acvm) for registration conditions.

### International Agreements related to the substance such as Montreal Protocol, the Stockholm Convention or Rotterdam Convention

Not applicable.

## 16. Other Information

### Date of preparation of the SDS

3 August 2023

### Key or legend to abbreviations and acronyms used

ACVM	Agricultural Compounds and Veterinary Medicines
ADR/RID	Dangerous Goods for Land / Rail
EEL	Environmental Exposure Limit
EPA	Environmental Protection Authority
GHS	Globally Harmonised System
ICAO	International Civil Aviation Organisation
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Lethal concentration to 50% of the test population
NOEC	No observed effect concentration

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N.O.S.	Not Otherwise Specified
OEL	Operator Exposure Limits
PBT or vPvP	Persistent / Bioaccumulative / Toxic or very Persistent/very Bioaccumulative
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TEL	Tolerable Exposure Limit
UN GHS	United Nations Globally Harmonised System
WES	Workplace Exposure Standards

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

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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.