



We create chemistry

Safety Data Sheet

Page 1 of 11

BASF Safety Data Sheet
Date / Revised: 02.11.2022
Product: **STORM® SECURE**

Version: 3.0

(30618895/SDS_CPA_NZ/EN)

Date of print): 14.12.2022

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

STORM® SECURE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use: crop protection product, rodenticide

1.3. Details of the supplier of the safety data sheet

Manufacturer/supplier:
BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
NEW ZEALAND
Telephone: +64 9 255-4300
Telefax number: +64 9 255-4307

1.4. Emergency telephone number

National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24-hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazards Identification

Classification of the substance and mixture:

- STOT "Specific target organ toxicity" — repeated exposure (Blood): Cat.2
- Acute Tox. 4
- Hazardous to terrestrial vertebrates

2.1. Classification of the substance or mixture

Hazard classification:
6.1D, 6.9B, 9.3C

2.2. Label elements

Pictogram:



Signal Word: WARNING

Hazard Statements:

- H302 Harmful if swallowed
- H371 May cause organ damage
- H373 May cause damage to organs (Blood) through prolonged or repeated exposure.
- H433 Harmful to terrestrial vertebrates

Precautionary Statement:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read the label carefully before use and follow all instructions.

Precautionary Statements (Prevention):

- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P264 Wash "specified body parts "thoroughly after handling.
- P270 Do not eat, drink, or smoke while using this product.

Precautionary Statements (Response):

- P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- P314 Get medical advice/attention if you feel unwell.
- P330 Rinse mouth.

Precautionary Statements (Disposal):

- P501 Dispose of contents and container to hazardous or special waste collection point.

2.3. Other hazards

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. This product is hazardous to mammals, including domesticated animals, and birds. Exposure of non-target animals should be prevented.

3. Composition/Information on Ingredients

Chemical nature

Substance nature: mixture

Bait, rodenticide

Contains:

Flocoumafen (Content (W/W): 0.005 %)

Hazardous ingredients

Flocoumafen

Content (W/W): 0.005 %

CAS Number: 90035-08-8

Acute Tox.: Cat. 1 (Inhalation - dust)

Acute Tox.: Cat. 1 (oral)

Acute Tox.: Cat. 1 (dermal)

STOT RE (Blood): Cat. 1

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 1

M-factor acute: 10

M-factor chronic: 10

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

4.1. Description of first aid measures

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.

4.2. 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.

(ID no. 30492467/SDS_GEN_NZ/EN; Version: 4.0)

Hazards: The substance / product is an anticoagulant rodenticide with a coumarin-type mode of action.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: Vitamin K1 preparation as antidote.

5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:
carbon dioxide

5.2. Special hazards arising from the substance or mixture

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.

5.3. 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.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. 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 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. Wear suitable protective equipment.

6.3. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

7.1. 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 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 – cover bait points or use bait boxes.

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.

7.2. 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. Keep locked-up and out of reach of children.

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/Personal Protection

8.1. Control parameters

Paraffin waxes and Hydrocarbon waxes, 8002-74-2.

TWA value 2 mg/m³ (ACGIHTLV), fumes/smoke

TWA value 2 mg/m³ (OEL (NZ)), fumes/smoke

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 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), polyvinylchloride (0.7 mm) and others. Manufacturer's directions for use should be observed because of great diversity of types.

(ID no. 30492467/SDS_GEN_NZ/EN; Version: 4.0)

Eye protection:

Required when there is a risk of eye contact. 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

9.1. Information on basic 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 flammable (Directive 92/69/EEC, A.10)
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 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 ³ (20 °C) (OECD Guideline 109)
Relative vapour density (air):	not applicable
Solubility in water:	insoluble
Information on: a mixture of:	cis-4-hydroxy-3-(1,2,3,4-tetrahydro-3-(4-(4-trifluoromethylbenzyloxy)phenyl)-1-naphthyl)coumarin; trans-4-hydroxy-3-(1,2,3,4-tetrahydro-3-(4-(4-trifluoromethylbenzyloxy)phenyl)-1-naphthyl)coumarin
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Self ignition:	Temperature: 267 °C
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not applicable, the product is a solid
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.

(ID no. 30492467/SDS_GEN_NZ/EN; Version: 4.0)

9.2. Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

Strong acids, strong bases, strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products:

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

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic 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): > 5,000 mg/kg

LC50 (by inhalation):

Not inhalable due to the physico-chemical properties of the product.

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

Irritation

Assessment of irritating effects:

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

(ID no. 30492467/SDS_GEN_NZ/EN; Version: 4.0)

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

Assessment other acute effects:

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.

Respiratory/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: Skin sensitizing effects were not observed in animal studies.

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.

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.

(ID no. 30492467/SDS_GEN_NZ/EN; Version: 4.0)

Aspiration hazard

No aspiration hazard expected

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

12.1. 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 the properties of the individual components.

Information on: Flocoumafen

Toxicity to fish:

LC50 (96 h) 0.071 mg/l, Oncorhynchus mykiss (OECD Guideline 203)

Information on: Flocoumafen

Chronic toxicity to fish:

No observed effect concentration (28 d) < 0.1 mg/l, Brachydanio rerio (other, Flow through.)

Information on: Flocoumafen

Aquatic invertebrates:

EC50 (48 h) 0.17 mg/l, Daphnia magna (OECD Guideline 202, part 1)

Information on: Flocoumafen

Aquatic plants:

EC50 (72 h) > 18.2 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201)

EC10 (72 h) > 18.2 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201)

12.2. 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 (H₂O):

Not readily biodegradable (by OECD criteria).

12.3. 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.

(ID no. 30492467/SDS_GEN_NZ/EN; Version: 4.0)

12.4. Mobility in soil

Assessment transport between environmental compartments:
Adsorption in soil: 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:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5. Additional information

Other ecotoxicological advice:
Must not be discharged into the environment.

13. Disposal Considerations

13.1. Waste treatment methods

Container:

DO NOT reuse this container for any purpose. 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. For information on disposal of unused, unwanted product, contact the local council.

Do NOT contaminate surface or ground water with bait or used container.

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.

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

(ID no. 30492467/SDS_GEN_NZ/EN; Version: 4.0)

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

15. Regulatory Information

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

For the user of this plant-protective product applies:
To avoid risks to man and the environment, comply with the instructions for use.

NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR001601.
See www.epa.govt.nz for approval controls.

Registered pursuant to the ACVM Act 1997, No. V9219.
See www.foodsafety.govt.nz for registration conditions.

Qualifications required: any person mixing, loading, or handling this product must be a qualified person. Refer to the product label for handling precautions and directions for use.

Certified Handler: Not required
Tracking: Not required
Record keeping: Not required

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.

16. Other Information

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.

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