



MATERIAL SAFETY DATA SHEET

STORM® SECURE

Date of Issue: June 2012

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product Name: **STORM® SECURE WAX BLOCK RODENTICIDE from AgNova**

Other Names: Flocoumafen

Recommended Use: **rodenticide, bait**

Supplier: AgNova Technologies Pty Ltd

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2. HAZARDS IDENTIFICATION

No specific dangers known, if the regulations/notes for storage and handling are considered.

Hazard Designation: Flocoumafen: Hazard symbol(s): T+ (Very toxic), N (Dangerous for the environment).

Risk Phrases: Flocoumafen:
R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
R48/23/24/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: Flocoumafen:
S(1/2): Keep locked up and out of the reach of children.
S28: After contact with skin, wash immediately with plenty of water and soap.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60: This material and its container must be disposed of as hazardous waste.
S61: Avoid release to the environment. Refer to special

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instructions/Material Safety Data Sheets.
ADG Not classified as a dangerous good under transport regulations
Classification:
SUSMP Poison Schedule 6 (S6)
Classification: (Standard for the Uniform Scheduling of Medicines and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients: | CAS Number: | Concentration (w/w): |
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| Flocoumafen | 90035-08-8 | 0.005 % |
| alpha-cypermethrine | 67375-30-8 | 0.0002 % |

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Inhalation: Keep patient calm, remove to fresh air, seek medical attention.
Ingestion: Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control centre or doctor.
Skin contact: After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.
Eye contact: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
First Aid Facilities: Provide washing facilities in the workplace.
Medical attention: Treatment: Symptomatic treatment (decontamination, vital functions).
 Antidote: Vitamin K1 preparation as antidote.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Dry extinguishing media, foam, water spray, carbon dioxide.
 Unsuitable extinguishing media for safety reasons: water jet.

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| Hazards from Combustion Products: | In case of fire, decomposition products may occur i.e. carbon monoxide, hydrogen fluoride, nitrogen oxides, toxic gas. |
| Precautions for Fire Fighters: | Wear self-contained breathing apparatus and chemical-protective clothing. 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

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| Personal Precautions: | 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 for 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. |

7. HANDLING AND STORAGE

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| Handling: | <p><i>Handling Precautions</i></p> <p>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).</p> <p><i>Protection against fire and explosion:</i></p> <p>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.</p> |
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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 duration: 24 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

Exposure Standards: No exposure standard allocated

Personal Protective Equipment:

Respiratory protection:
Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

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 DIN-EN 465).

General safety and hygiene measures:
The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, blocks
Colour: Blue
Bulk Density: 0.60 - 0.68 kg/dm³
Solubility: Insoluble in water
Ignition Temperature: 235°C

10. STABILITY AND REACTIVITY

Chemical Stability: No decomposition if stored and handled as prescribed/indicated.
Hazardous Polymerisation: No hazardous reactions if stored and handled as prescribed/indicated.
Incompatible Materials: No substances known that should be avoided.
Hazardous Decomposition Products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Oral Toxicity: LD₅₀ Oral (ingestion) Rat = >5,000 mg/kg
Dermal Toxicity: LD₅₀ Dermal (skin contact) Rat = >5,000 mg/kg
Inhalation Toxicity: Information on: Floccoumafen
 LC50/by inhalation/rat: >0.16 - <1.4 mg/l / 4 h
 Information on: alpha-cypermethrine
 LC50/by inhalation/rat: > 1.59 mg/l / 4 h
 The test result applies only to the substance transferred into respirable aerosol (particles < 20 µm).
Skin Irritation: Non-irritant
Mucous Membrane Irritation: No data available

Sensitisation: Skin sensitizing effects were not observed in animal (guinea pig) studies.

Additional information: Misuse can be harmful to health.

12. ECOLOGICAL INFORMATION

Dangerous to fish. May cause long term adverse effects in the aquatic environment.
DO NOT contaminate ponds, irrigation channels, drains, streams, rivers or waterways with the chemical or used containers.

Fish Toxicity: *Oncorhynchus mykiss*/LC50 (96 h): > 4,000 mg/l
The product has not been tested. The statement has been derived from products of a similar structure and composition.

Information on Flocoumafen:

Oncorhynchus mykiss/LC50 (96 h): 0.091 mg/l

Lepomis macrochirus/LC50 (96 h): 0.112 mg/l

Daphnia Toxicity: Information on alpha-cypermethrine:
Pimephales promelas/LC50 (96 h): 0.93 ug/l
Daphnia magna/EC50 (48 h): 280 mg/l
The product has not been tested. The statement has been derived from products of a similar structure and composition.

Information on Flocoumafen:

Daphnia magna/EC50 (48 h): 0.17 mg/l

Aquatic Plant Toxicity: Information on alpha-cypermethrine:
Daphnia magna/LC50 (48 h): 0.0001 - 0.0003 mg/l
Information on Flocoumafen:
Selenastrum capricornutum/EC50 (96 h): 1.1 mg/l

Environmental Fate, Persistence and Degradation: Information on alpha-cypermethrine:
Pseudokirchneriella subcapitata/EC50 (96 h): > 0.1 mg/l
Information on Flocoumafen:
Evaluation: Not readily biodegradable (by OECD criteria).
Information on alpha-cypermethrine:
Evaluation: Not readily biodegradable (by OECD criteria).

Other ecotoxicological advice: Do not discharge product into the environment without control

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

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| Domestic transport: | Not classified as a dangerous good under transport regulations |
| Sea transport IMDG | Not classified as a dangerous good under transport regulations |
| Air transport IATA/ICAO | Not classified as a dangerous good under transport regulations |

15. REGULATORY INFORMATION

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| SUSMP: | Schedule 6 |
| APVMA: | Registered according to the Agricultural and Veterinary Chemicals Act 1994. APVMA Product Number: 64695 |

16. OTHER INFORMATION

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| Trademark Information: | Registered Trademark of BASF |
| Date of Preparation or Revision: | June 2012. |

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| Abbreviations and Acronyms: | APVMA – Australian Pesticides and Veterinary Medicines Authority SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons IMDG – International Maritime Dangerous Goods |
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IATA – International Air Transport Association
ICAO – International Civil Aviation Organisation

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

END OF MSDS