

MATERIAL SAFETY DATA SHEET

GENERATION® FIRSTSTRIKE SINGLE-FEED RODENTICIDE**- 1 - IDENTIFICATION OF CHEMICAL PREPARATION AND COMPANY**

Commercial Name: **GENERATION FIRSTSTRIKE SINGLE-FEED RODENTICIDE**
Use: Rodenticide. Bait used for the control of rats and mice.
Company Identification: Distributed by Jerome Beline
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- 2 - IDENTIFICATION OF HAZARDS**Hazard Classification: NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.**

Not classified as a hazardous substance according to the criteria of NOHSC.
Not classified as a dangerous good according to the Australian Dangerous Goods Code for Rail and Road Transport, 7th Edition.

Poison Schedule: 6

Although this product is not classified as dangerous, the active substance may cause serious damage to health by prolonged exposure. The active substance has anti-vitamin K properties and absorption or ingestion can cause blood coagulation problems including haemorrhagic syndrome. See First Aid section below.

- 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Blue-coloured rodenticide paste bait used for the control of rats and mice.
The active substance is Difethialone, (CAS No. 104653-34-1) which is present at a concentration of 25 mg/kg. The other ingredients are food grade materials.

- 4 - FIRST AID MEASURES**POISONING SYMPTOMS:**

Clinical symptoms: nosebleed, gum bleed, spitting blood, multiple or large haematoma, generally sudden appearance of an unusual visceral pain.

Biological symptoms: blood in the urine, increase in coagulation time.

In all cases of suspected exposure, medical assistance should be sought immediately. Show this data sheet. See antidotal therapy below. Note that poisoning symptoms may develop over the course of several days.

EYE CONTACT:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Monitor for symptoms described above.

INHALATION:

- The preparation is a non-dusty block. Inhalation is not applicable as a route of exposure.

SKIN:

- Remove contaminated clothing. Launder before re-use.
- Rinse skin immediately with soap and water.
- Monitor for symptoms described above.

INGESTION:

- Wash out mouth with plenty of water.
- If swallowed, seek medical advice immediately and show the container/label/safety data sheet.
- Do not induce vomiting unless told to do so by the Poisons Information centre or doctor.
- Do not give anything by mouth to an unconscious person.

MEDICAL ADVICE:

Primary treatment is antidotal therapy rather than clinical assessment. Antidotal therapy: **SPECIFIC** Vitamin K1 (phytomenadione). Analogues of Vitamin K1 (vitamin K3: menadione for example) are not very active and should not be used. The efficacy of the treatment should be followed by measuring the coagulation time. The treatment should not be discontinued until the coagulation time returns to normal and **REMAINS** normal. In case of serious intoxication, it may be necessary to administer, in addition to vitamin K1, blood or frozen fresh plasma or PPSB coagulant blood fraction transfusions.

- 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material. Foam or dry chemical fire extinguishing system is preferred to prevent excessive water run off.

SPECIAL EXPOSURE HAZARDS: The preparation is not known to produce hazardous decomposition products under normal storage conditions. Normal products of organic combustion will be released under conditions of pyrolysis or combustion.

ADVICE FOR FIRE-FIGHTERS: Wear breathing apparatus and appropriated protective clothing.

- 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Operators must observe precautions in handling and storage. See section 8 of this material safety data sheet.

ENVIRONMENTAL PRECAUTIONS: In the case of major spillage in water, prevent entry into drains and waterways. If polluted water reaches drainage systems or water courses, immediately inform the competent authorities.

METHODS FOR CLEANING UP: Collect or sweep up preparation into containers for recovery and disposal. After removal, clean contaminated area with water and detergent. Avoid the entry of washings into drains or waterways.

- 7 - HANDLING AND STORAGE

HANDLING: Read carefully the label before handling and use. Users should wash hands immediately after handling. When using, do not eat, drink or smoke.

STORAGE: Store securely. Keep away from food and out of reach of children. Store in original packaging.

SPECIFIC USES: This product is a rodenticide bait used for the control of rodents.

- 8 - EXPOSURE CONTROL - PERSONAL PROTECTION

EXPOSURE LIMITS: Occupational Exposure Standards are not set for the active substance.

OCCUPATIONAL EXPOSURE CONTROLS: Although this product is not classified as hazardous, operators should be aware that the active substance may cause serious damage to health by prolonged exposure.

RESPIRATORY PROTECTION: Not applicable.

HAND PROTECTION: It is recommended that operators wear disposable latex or similar flexible gloves suitable for biological hazards (compliant with EN 455-3). Care should be taken when removing and disposing of gloves. Users should wash hands immediately after handling in all cases.

EYE PROTECTION: Eye protection is not necessary if using according to recommendations.

SKIN PROTECTION: Specific protective clothing or other Personal Protective Equipment is not required if using according to recommendations.

In case of frequent or prolonged use, monitoring of coagulation time is recommended.

- 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue coloured paste

ODOUR: None

FLASH POINT: Not applicable to solid substances

FLAMMABILITY: Not highly flammable

SELF IGNITION TEMPERATURE: 260°C

OXIDIZING PROPERTIES: Not oxidising

EXPLOSIVITY: Does not have explosive potential

pH VALUE: pH 6.0 for 1% aqueous dispersion at 25°C

BULK DENSITY: 1.0 g/cm³

WATER SOLUBILITY: Not soluble.

- 10 - STABILITY AND REACTIVITY

STABILITY: The preparation is stable under normal ambient conditions.

CONDITIONS TO AVOID: The preparation is not known to undergo hazardous reactions under normal handling conditions.

MATERIALS TO AVOID: The preparation is not known to undergo hazardous reactions in contact with other substances.

HAZARDOUS DECOMPOSITION PRODUCTS: The preparation is not known to produce hazardous decomposition products under normal storage conditions. Normal products of organic combustion will be released under conditions of pyrolysis or combustion.

- 11 - TOXICOLOGICAL DATA

ACUTE TOXICITY: Studies conduct on the preparation

Oral LD₅₀ – Rat NOEL single dose of preparation > 5000 mg/kg bw: Not classified as toxic.

Dermal LD₅₀- Rabbit NOEL single dose of preparation > 2000 mg/kg bw: Not classified as toxic.

Inhalation LC₅₀- Not applicable to solid preparation.

Eye Irritation – Not classified as irritating.

Skin Irritation – Not classified as irritating.

Sensitization – Not classified as sensitising.

CHRONIC TOXICITY: Studies conducted on active substance

90 day rat: LOAEL = 4 µg/kg bw/day based on haemorrhagic changes seen at necropsy

90 day dog: LOAEL = 20 µg/kg bw/day based on haemorrhagic changes seen at necropsy

The active substance is classified as having a danger of serious damage to health by prolonged exposure

CARCINOGEN DATA: No evidence of carcinogenicity.

MUTAGENIC DATA: No *in vivo* or *in vitro* evidence of mutagenicity.

REPRODUCTIVE TOXICITY: No evidence of reproductive toxicity.

OTHER COMMENTS: The active substance is a powerful anticoagulant rodenticide which has accumulative toxic effects due to anti-Vitamin K activity.

- 12 - ECOLOGICAL INFORMATION

ECOTOXICITY

Ecological information on Difethialone active substance

BIRD TOXICITY

Acute oral LD₅₀ – 23.5 mg/kg bw (Japanese quail), 0.264 mg/kg bw (Bobwhite quail)

Short term dietary (30 day) LC₅₀ – 1.94 mg/kg food (Mallard duck), 0.56 mg/kg food (Bobwhite quail)

ACUTE AQUATIC TOXICITY

Fish LC₅₀ (96 h.): max 75 µg/L for *Lepomis macrochirus* , 51 µg/L for *Oncorhynchus mykiss*

Algae E_bC₅₀ (96 h.): 65 µg/L

Daphnia magna EC₅₀ (48 h.): 4.4 µg/L

The substance is therefore very toxic to aquatic organisms.

TERRESTRIAL TOXICITY

Earthworm Acute NOEC: 500 mg/kg soil

Acute LOEC: 62.5 mg/kg soil

Acute LC₅₀: >1000 mg/kg soil

MOBILITY

The substance is strongly and rapidly adsorbed to soil. Even if released indirectly to soil in small quantities, it is not likely to move through the soil profile and is unlikely to reach groundwater in significant quantities.

PERSISTENCE AND DEGRADABILITY

The substance is not considered to be biodegradable under environmentally relevant conditions or during sewage treatment processes. Hydrolysis and photolysis is not expected to be significant processes in the environment. The substance is slowly degraded in soil with a DT₅₀ > 1 year under aerobic conditions and is not expected to volatilise to or persist in air in significant quantities.

BIOACCUMULATIVE POTENTIAL

The Log Pow is 6.3 which indicates there is a potential to bioaccumulate in the food chain.

OTHER ADVERSE EFFECTS

Up to this date no other adverse effects are known.

- 13 - DISPOSAL CONSIDERATIONS

PRODUCT: The preparation is a rodenticide and if ingested by domestic or wild animals will cause death. Care should therefore be taken to ensure that disposal methods do not expose the preparation to non-target wild or domestic animals or pets. Contact the Local Authority or a reputable waste disposal company for collection and disposal of unwanted product. The preparation cannot be safely neutralised. Do not release into drains or waterways. Refer to local waste and Environmental regulations.

PACKAGING: The empty container should not be used for any other purpose and should be disposed of considering the comments above.

- 14 – TRANSPORT INFORMATION

Not classified as a Dangerous Good according to the Australian Dangerous Goods Code for Rail and Road Transport, 7th Edition.

- 15 - REGULATORY INFORMATION

SUSDP: Schedule 6

APVMA: Registered according to the Agricultural and Veterinary Chemicals Act 1988.

APVMA Product Number : 66889

This preparation contains difethialone as the active substance (CAS No. 104653-34-1) which is present at a concentration of 25 mg/kg.

- 16 - OTHER INFORMATION

Version number: 2

Date of issue of this version: 08 July 2014

Supersedes version number: 1

Details of changes since last issue: Minor changes in all sections

APVMA – Australian Pesticides and Veterinary Medicines Authority

NOHSC – National Occupational Health and Safety Commission

SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons

Information contained in this Material Safety Data Sheet is based on our present knowledge of the product and concern a product description in conformity with Health, Safety and Environmental regulations.

Our local licensee, liable for the local distribution of the product, will adapt this safety data sheet to the local regulation.

This information should be used as a guide and does not imply any warranty concerning the specific properties of the product and the specific local needs.