

**SAFETY DATA SHEET**  
**GENERATION BLOCK**

## 1- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

**1.1- Product identifier:**  
GENERATION BLOCK

**1.2- Relevant identified uses of the substance/mixture and uses advised against:**  
Rodenticide for the control of rats and mice. For use in and around buildings and in sewers.

### 1.3- Details of manufacturer or importer

**Manufacturer and registration holder :**  
LIPHATECH S.A.S  
Bonnell – CS10005 - 47480 PONT DU CASSE (France)  
☎ : +33 5 53 69 35 70 - Fax : + 33 5 53 66 30 65  
Department in charge of information: Regulatory  
Department  
☎ : +33 5 53 69 35 62 - Fax : + 33 5 53 47 95 01  
Mail : [fds@desangosse.com](mailto:fds@desangosse.com)

**Contact details in New Zealand:**  
DE SANGOSSE NEW ZEALAND LTD  
PO Box 113, Te Awamutu, 3841, New Zealand  
+64 (0) 7 827 4856  
[infonz@desangosse.com](mailto:infonz@desangosse.com)

**1.4- Emergency telephone number:**  
**0800 764 766 (0800 POISON)** Toll free number 24 hours a day

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## 2 -HAZARDS IDENTIFICATION

**Hazard classification:** Product is classified as hazardous according to Schedules 1 to 6 of the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 of the HSNO Act, 1996.

**ERMA New Zealand Approval Code:** HSR100839  
Refer to [www.epa.govt.nz](http://www.epa.govt.nz) for Controls for this substance.

**HSNO Hazard Classifications :** 6.9B, 9.1C, 9.3C

**Pictogram:**



**SIGNAL Word:** WARNING

**Hazard Statements:**  
H373 May cause damage to blood/hematopoietic system through prolonged or repeated exposure  
H402 Harmful to aquatic life

**Prevention Statements:**  
P103 Read label before use  
P260 Do not breathe dust  
P273 Avoid release to the environment

**Response Statements:**  
P314 Get medical advice if you feel unwell

**Storage Statements:**  
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**Disposal Statements:**  
P501 Dispose of empty container by wrapping in paper, placing in a plastic bag and putting in garbage.  
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.

### **3 – COMPOSITION / INFORMATION ON INGREDIENTS**

#### **3.1 – Mixtures:**

This mixture contains 25 mg/kg of Difethialone (CAS number 104653-34-1).

This active substance may cause serious damage to health by prolonged exposure. The active substance has antivitamin K properties and absorption or ingestion can cause blood coagulation problems including haemorrhagic syndrome.

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### **4 – FIRST AID MEASURES**

#### **4.1- Description of first aid measures**

##### **GENERAL INFORMATION:**

In all cases of suspected exposure, medical assistance should be sought immediately.

For advice contact national poisons Centre (Tel: 0800 764 766) or a doctor.

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 non-dusty bait. Inhalation is not applicable as a route of exposure

##### **SKIN CONTACT:**

- 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 Poison Centre or doctor.
- Do not give anything by mouth to an unconscious person.

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

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

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

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.

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### **5 – FIREFIGHTING MEASURES**

#### **5.1- 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.

#### **5.2- Special hazards arising from the mixture**

The mixture 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.

#### **5.3- Advice for fire-fighters**

Wear breathing apparatus and appropriated protective clothing.

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## 6 – ACCIDENTAL REALEASE MEASURES

### **6.1- Personal precautions, protective equipment and emergency procedures**

Operators must observe precautions during handling and storage. See also section 8 of this material safety data sheet.

### **6.2- Environmental precautions**

In 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.

### **6.3- Methods and material for containment and cleaning up**

Collect or sweep up the product into containers for recovery and disposal. After removal, clean contaminated area with water and detergent. Avoid the entry of washings into drains or waterways. See section 13 concerning disposal methods.

### **6.4- Reference to other sections**

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## 7 – HANDLING AND STORAGE

### **7.1- Precautions for safe handling**

Read carefully the label before handling/use.

Protective equipment: see section 8.

Users should wash hands immediately after handling. When using, do not eat, drink or smoke

### **7.2- Conditions for safe storage, including any incompatibilities**

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

### **7.3 – Specific end use**

Rodenticide for the control of rats and mice. For use in and around buildings and in sewers.

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## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### **8.1 – Control parameters**

Occupational exposure standards are not set for the active substance.

### **8.2- Exposure controls**

#### ➤ **RESPIRATORY PROTECTION:**

Not applicable

#### ➤ **HAND PROTECTION:**

It is recommended that operators wear disposable latex or similar gloves. 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.

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## 9 – PHYSICAL AND CHEMICAL PROPERTIES

### **9.1- Information on basic physical and chemical properties**

**APPEARANCE:** Block

**COLOUR:** Blue

**ODOUR:** Cereal odour

**FLAMMABILITY:** Not highly flammable

**OXIDISING PROPERTIES:** Does not have oxidising properties

**EXPLOSIVITY:** Does not have explosive properties

**pH:** No data available

**WATER SOLUBILITY:** Not miscible

## **9.2- Other information**

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## **10 – STABILITY AND REACTIVITY**

### **10.1- Reactivity**

The mixture is not known to undergo hazardous reactions under normal handling conditions.

### **10.2- Chemical stability**

The mixture is stable under normal ambient conditions.

### **10.3- Possibility of hazardous reactions**

The mixture is not known to undergo hazardous reactions in contact with other substances.

### **10.4- Conditions to avoid**

The mixture is not known to undergo hazardous reactions under normal handling conditions.

### **10.5- Incompatible materials**

The mixture is not known to undergo hazardous reactions under normal handling conditions.

### **10.6- Hazardous decomposition products**

The mixture 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.

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## **11 – TOXICOLOGICAL INFORMATION**

### **11.1- Information on toxicological effects**

#### **ACUTE TOXICITY**

Studies conducted on the mixture

LD<sub>50</sub> oral (Rat): > 5000 mg/kg

LD<sub>50</sub> dermal (Rat): > 2000 mg/kg

LC<sub>50</sub> inhalation: Not applicable.

#### **CHRONIC TOXICITY:**

LOAEL – Rat (90 days): 4 µg/kg bw/day – NOAEL (Rat – 90 days): 2 µg/kg bw/day

LOAEL – Dog (90 days): 20 µg/kg bw/day – NOAEL (Dog – 90 days): 10 µg/kg bw/day).

The active substance is classified as dangerous and may cause serious damage to health by prolonged exposure

#### **SKIN CORROSION/IRRITATION:**

Not irritant.

#### **SERIOUS EYE DAMAGE/IRRITATION:**

Not irritant.

#### **RESPIRATORY OR SKIN SENSITIZATION:**

Not sensitising

#### **GERM CELL MUTAGENICITY:**

No data available for the mixture.

Active substance Difethialone: No *in vivo* or *in vitro* evidence of mutagenicity.

#### **CARCINOGENICITY:**

No data available for the mixture.

Active substance Difethialone: No evidence of carcinogenicity.

#### **REPRODUCTIVE TOXICITY:**

No data available for the mixture.

Active substance Difethialone: No evidence of reproductive toxicity.

#### **SPECIFIC TARGET ORGAN TOXICITY (STOT) – SINGLE EXPOSURE:**

No data available

#### **SPECIFIC TARGET ORGAN TOXICITY (STOT) – REPEATED EXPOSURE:**

No data available

#### **ASPIRATION HAZARD:**

No data available

**11.2- Information on possible routes of exposure**

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**12 – ECOLOGICAL INFORMATION**

**12.1- Ecotoxicity**

**AQUATIC ACUTE TOXICITY**

No data available for the mixture.

Data on active substance Difethialone:

LC<sub>50</sub> Fishes (96 h.): 51 µg/l – NOEC: 22 µg/L (*Oncorhynchus Mykiss*)

EbC<sub>50</sub> Algae (72 h.): 65 µg/L – NOEC: 32 µg/L (*Selenastrum capricornutum*)

EC<sub>50</sub> Daphnis (48 h.): 4.4 µg/L – NOEC: 3 µg/L (*Daphnia magna*)

The substance is very toxic to aquatic organisms.

**TOXICITY FOR TERRESTRIAL SPECIES**

Acute toxicity LC<sub>50</sub> Earthworm (14 days) (*Eisenia foetida*): > 1000 mg/kg soil

**BIRD TOXICITY**

Acute toxicity LD<sub>50</sub>: 0.264 mg/kg bw (*Colinus virginianus*)

Short term dietary (30 days) LC<sub>50</sub>: 0.56 mg/kg of food (*Colinus virginianus*)

**12.2- Persistence and degradability**

The active substance Difethialone is not considered as easily biodegradable.

Degradation pathway and rate in soil: DT<sub>50</sub>: between 417 and 976 days

Degradation pathway and rate in water: Hydrolysis DT<sub>50</sub>: 175 days (pH 7); >1 year (pH 5) – 11.2% degradation after 30 days - Photolysis DT<sub>50</sub>: between 20 and 60 minutes

**12.3- Bioaccumulative potential**

Data on Difethialone active substance:

Log Pow: 6.29

Bioconcentration factor (BCF) (fishes): 39974 (calculated) – High bioaccumulative potential

**12.4- Mobility in soil**

The active substance Difethialone is not mobile in soil.

**13 – DISPOSAL CONSIDERATIONS**

**13.1- Waste treatment methods**

**MIXTURE (PRODUCT):**

Product will be disposed of according to applicable legislation and regulations, if necessary, after consulting an authorised waste disposal company. It is recommended that the waste product is stored in specially designated spaces or destroyed in incineration facilities by the waste disposal companies.

Care should be taken to ensure that disposal methods do not expose the preparation to non-target wild or domestic animals or pets. Dispose of according to national/local law. Do not release into drains or waterways.

Do not contaminate water, food or feed by storage or disposal.

Do not contaminate ground, waterbodies or watercourses with chemicals or used containers. 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. Do not reuse or refill the container

**14 – TRANSPORT INFORMATION**

**UN Recommendations concerning the carriage of dangerous goods** (ADR, IATA, IMDG Regulations).

**14.1- UN Number :**

This product is not classified as dangerous goods according to these regulations.

**14.2- UN proper shipping name:**

This product is not classified as dangerous goods according to these regulations.

**14.3- Transport hazard class:**

This product is not classified as dangerous goods according to these regulations.

**14.4- Packing group:**

This product is not classified as dangerous goods according to these regulations.

**14.5- Environmental hazards:**

This product is not classified as dangerous goods according to these regulations.

The active substance is very toxic to aquatic organisms and may cause long-term adverse effects.

**14.6- Special precautions for user:**

No special precautions

**14.7- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:**

Not regulated.

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**15 – REGULATORY INFORMATION**

**New Zealand**

HSNO Act 1996

EPA Approval: HSR100840

Refer to [www.epa.govt.nz](http://www.epa.govt.nz) for Controls

ACVM Act 1997

Registered pursuant to the ACVM Act: V9597

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

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**16 – OTHER INFORMATION**

**Abbreviations:**

CLP: Classification, Labelling and Packaging

LD<sub>50</sub>: Lethal dose 50%

LC<sub>50</sub>: Lethal concentration 50%

NOEC: No observed effect concentration

EC<sub>50</sub>: Effective concentration

PBT: Persistent, bioaccumulative, toxic

VPvB: Very Persistent, very Bioaccumulative

ADR: Agreement concerning the international carriage of Dangerous goods by Road

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

**Details of changes since last issue:**

Minor Changes in all section.

Section 1: Update of the contact details in New Zealand.

Section 11: Update of toxicological information

Section 12: Update of ecological information on active substance Difethialone.

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*Information noted in this material safety data sheet is based on our present technical and scientific knowledge of the product at this date.*

*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.*

*Recipients of this MSDS must ensure that the information it contains has been properly read and understood by all who use, handle, dispose of or in contact with the product. Our local licensee, liable for the local distribution of the product, will adapt this safety data sheet to the local regulation.*