

# MATERIAL SAFETY DATA SHEET

- Occupational Health and Safety Act and Regulations (85/1993)
- General Administrative Regulations

**Product:** SUPA-Kill Liquid Rat & Mouse Bait

## COMPANY DETAILS

**Name:** Scientific Supa-Kill cc

**Contact Person:** N/A

**Address:** PO Box 8020  
EDLEEN  
1625

**Emergency Tel no:** N/A

**Tel:** (011) 394 3941

**Cell phone:** N/A

**Fax:** N/A

**E-mail:**

## 1. PRODUCT AND COMPANY IDENTIFICATION:

**Trade Name:** SUPA-Kill Liquid Rat & Mouse Bait

**Chemical Family:** Coumarin

**Chemical Name:** No data available

**Synonyms:** Brodifacoum

**Chemical Abstract no:** 28772-56-7

**Niosh No:** N/A

**UN no:** N/A

## 2. COMPOSITION:

**Components/Hazardous components:** Brodifacoum

**EEC Classification:** N/A

**R Phrases:** N/A

## 3. HAZARDS IDENTIFICATION:

**Main Hazard:** Extremely hazardous if swallowed and on prolonged skin contact. Accumulation of the toxin in the body is possible. Significant skin absorption may occur over an extended period. Symptoms develop after several hours or days.

**Flammability:** Not flammable

**Chemical hazard:** Decomposes in a fire to emit toxic fumes of Br-

**Biological hazard:** No data available

**Reproduction hazard:** No data available

**Eye effects:** May be irritating to eyes on contact causing redness, pain and blurred vision.

**Health effects—skin:** Prevent contact with skin. Significant absorption of the toxic through intact skin over an extended period; accumulation in the body may occur.

**Health effects – ingestion:** Avoid ingestion. Nausea and vomiting may occur soon after ingestion, but several hours/days may elapse before typical features of anticoagulant poisoning become evident; symptoms may include increased tendency to bleed, bruising, nose and gum bleeds, pallor, blood in the urine and faeces, hemorrhage into and around elbow and knee joints

**Health effects – inhalation:** Inhalation of the toxins in solution is unlikely. Symptoms of anticoagulant poisoning may occur after hours/days.

**Carcinogenicity:** No data available

**Mutagenicity:** No data available

**Neurotoxicity:** No data available

#### 4. FIRST AID MEASURES:

**Product in eye:** Immediately wash eye with copious amounts of clean water for at least 15 minutes.

**Product on skin:** Immediately remove contaminated clothing. Rinse the affected skin area with plenty of water followed by soap and cool water or shower. Do not rub skin hard.

**Product ingested:** Keep patient calm and reassured, put patient in recovery position. Never give anything by mouth to an unconscious person and do not apply direct mouth to mouth respiration, use a disposable protective mouth piece. Transport patient to a hospital or doctor immediately.

**Product inhaled:** Remove patient from source of poisoning to well ventilated area and keep him quiet and reassured.

**Note to physician:** Intramuscular Vitamin K1, 50 to 15mg on first day depending on prothrombin level and weight of patient. In severe cases, small transfusions of matched fresh blood may improve prothrombin levels. Keep under medical supervision until prothrombin levels return to normal. Gastric lavage may be affected if performed within 4 hours of ingestion.

**Note:** Brodifacoum differs from warfarin (coumarin) in that it causes increased bleeding tendency for a longer period of time. It may therefore be necessary to continue treatment as the poisoning may manifest only as an increased risk of bleeding.

#### 5. FIRE FIGHTING MEASURES:

**Extinguishing media:** Water fog, dry chemicals, foam

**Special hazards:** Decomposes in a fire to emit toxic fumes of Br-

**Protective Clothing:** Personnel involved in a fire situation with this material should wear self-contained breathing apparatus as toxic fumes may be given off. No unprotected person should be allowed in the vicinity.

## 6. ACCIDENTAL RELEASE MEASURES:

**Personal Precautions:** Protective clothing to be worn when clearing spillage.

**Environmental Precautions:** No data available

**Small spills: Large spills:** Soak up spillage with dry sand. Sweep up and dispose of as if toxic waste in accordance with local/national regulations.

## 7. HANDLING AND STORAGE

**Suitable material:** No data available

**Handling/storage precautions:** Store under lock and key away from children and domestic animals. Store in a cool, dry place away from sources of heat. Store away from food, feedstuffs, eating utensils and drinking water.

Clean protective clothing, used protective clothing and worker's personal clothing shall be kept apart. At the end of each day, all protective clothing and respirators shall be decontaminated, washed, rinsed and dried. Extra care must be taken when cleaning equipment after use.

Wear rubber gloves and wash hands after handling. Avoid all contact by mouth. Contamination of food, feed, eating utensils and all sources of drinking water, rivers, dams, crops or grazing shall be prevented. Toxic to aquatic organisms, fish and wildlife. Bury all dead rodents and any bait not consumed at end of treatment.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure limits:** No data available

**Engineering control measures:** No data available

**Personal protection – respiratory:** Effective respiratory protection must be worn when handling this material in an emergency.

**Personal protection – hand:** Nitrile rubber gloves

**Personal protection – eye:** Close fitting safety goggles or face shield

**Personal protection – skin:** Full length protective clothing and boots

**Other protection:** None

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance:** A clear, deep blue, free flowing liquid

**Explosive properties:** None

**Odour:** N/A

**Oxidizing properties:** None

**pH:** N/A

**Vapour pressure :** N/A

**Boiling point:** N/A

**Density:** N/A

**Melting point:** N/A

**Solubility – water:** N/A

**Flash point:**

**Solubility – solvent:** N/A

**Flammability:** N/A

**Solubility – coefficient:** N/A

**Autoflammability:** N/A

## 10. STABILITY AND REACTIVITY

**Conditions to avoid:** Product is stable under normal conditions and use.

**Incompatible materials:** None

**Hazardous decomposition products:** None

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** The product is an extremely hazardous anticoagulant rodenticide. For Bromadiolone, technical the acute oral LD50 to rat is 1.125 mg/kg. Lethal dose for dogs is approximately 10mg of Bromadiolone, technical.

**Chronic toxicity:** No data available

**Carcinogenicity:** No data available

**Mutagenicity:** No data available

**Reproductive hazards:** No data available

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity – fish:** For Bromadiolone, technical the LD50 (96 hours) for rainbow trout is 1.4 mg/l; for bluegill 1.3 mg/l.

**Aquatic toxicity – daphnia:** No data available

**Aquatic toxicity – algae:** No data available

**Biodegradability:** Slowly degraded in soil

**Bio-accumulation:** No data available

**Mobility:** No data available

**German wgk:** N/A

## 13. DISPOSAL CONSIDERATIONS:

**Disposal methods:** Residue may be disposed of as for toxic waste in accordance with local/national regulations.

**Disposal packaging:** Empty containers to be disposed of as for toxic waste in accordance with local/national regulations. Do not re-use for any other purpose.

#### 14. TRANSPORT INFORMATION

UN no: N/A

IMDG – EMS No: N/A

ADR/RID Substance identity no: N/A

IMDG – MFAG table on: N/A

ADR/RID class: N/A

IATA – class: N/A

ADR/RID item no: N/A

IATA – subsidiary risk(s): N/A

ADR/RID hazard identity no: N/A

UK – description: No data available

IMDG – shipping name: Rodenticide containing Brofacoum

UK emergency action class: No data available

IMDG – class: N/A

UK classification: No data available

IMDG – packaging group: N/A

Tremcard No: N/A

IMDG – marine pollutant: N/A

#### 15. REGULATORY INFORMATION:

EEC hazard classification: No data available

Risk phrases: No data available

Safety phrases: No data available

National Legislation: OSH Act, National Road Traffic Act (when promulgated)

#### 16. OTHER INFORMATION:

##### SELECTED BIBLIOGRAPHY

1. Data sheets as supplied by various Suppliers and Manufacturers
2. Emergency Response Handbook – Annex A of SABS 0232-3
3. Handling Chemicals Safety, 2<sup>nd</sup>. Ed. Dutch Association of Safety Experts, Dutch Chemical Industry Association, Dutch Safety Institute, 1980
4. NIOSH Pocket Guide to Chemical Hazards, NIOSH, June 1990
5. Micromedex, Inc. TOMES CPS <sup>TM</sup> System Vol. 39
6. Patty's Industrial Hygiene Toxicology, 4<sup>th</sup> ed. Vol. 11 Part A, George D Clayton, Florence E Clayton
7. Supplement to NIOSH Manual of Analytical Methods, 3<sup>rd</sup> ed., NIOSH Publication No 84-100, 1985
8. Toxic & Hazardous Industrial Safety Manual – Industrial Chemicals Safety Manual for Handling and disposal with toxicity and hazard data
9. WinSpirs 2.1 as supplied by the Canadian Centre for Occupational Health and Safety.

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