

# TORNADO

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** TORNADO  
**Pesticide Classification:** Rodenticide  
**UN No:** 3027

**Supplier**

Enviro Bio-Chem (Pty) Ltd  
Co. Reg. No.: 2013/194774/07  
44 Kerk Street, Lichtenburg  
North West, South Africa 2740

**Registration Holder**

RT Chemicals  
Co. Reg. No.: CK87/21925/23  
44 Kerk Street, Lichtenburg  
North West, South Africa 2740

**Telephone:** +27 87 231 7261  
**Fax:** 086 541 7948  
**Website:** [www.envirobiochem.co.za](http://www.envirobiochem.co.za)

**24 Hr Emergency Number:** Bateleur: +27 83 123 3911

**In case of Poisoning:**

Poison Information Centre: +27 82 446 8946  
Tygerberg Hospital: (+27 21) 931 6129  
Poison Emergency Enquiries: (+27 21) 689 5227

**Common Name:** Difenacoum 0.1 g/kg Bait Block  
**Chemical Name:** 2-Hydroxy-3-[3-(4-phenylphenyl)-1-tetralinyl]-4-chromenone (IUPAC)  
**Empirical Formula:** C<sub>31</sub>H<sub>24</sub>O<sub>3</sub>  
**CAS No.:** 56073-07-5  
**RSA Reg. No.:** L4253 Act 36 of 1947

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Difenacoum	0.1 g/kg

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### 3. HAZARD IDENTIFICATION

**Hazard Class:** WHO Class II -Moderately hazardous.

**Main Hazard:** This product is a good anticoagulant. The main hazard is the possibility of internal haemorrhage after swallowing or chronic contact through the skin or absorption through mucous membrane.

**Flammability:** Non-flammable

**Chemical Hazard:** None to specifically mention.

**Biological Hazard:** The product is slightly toxic for fishes, plankton and fixed abode organisms.

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### 4. FIRST AID MEASURES AND PRECAUTIONS

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital, or the nearest Poison Control Centre.

**Symptoms of Human Poisoning:** 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.

#### First Aid Measures:

**Skin Contact:** Remove contamination clothing and shoes. Wash affected skin immediately with water and non-abrasive soap. Seek medical attention if symptoms persist.

**Eye Contact:** Hold eyes open and flush with clear, clean running water for at least 15 minutes. Seek medical attention immediately.

**Ingestion:** Seek immediate medical attention.

**Inhalation:** Remove source of contamination or move victim to fresh air. Keep affected person warm and at rest. Seek medical advice immediately.

**Advice to Physician:** Treat symptomatically.

**Antidote:** Vitamin K.

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### 5. FIRE FIGHTING MEASURES

**Flammability:** Not a fire or explosion hazard.

**Extinguishing Agents:** Extinguish fires with water spray, dry powder or foam.

**Firefighting:** Firefighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus. Fight fire from maximums distance. Remove containers from fire area if it is safe to do so. Contain fire control agents for later disposal according to Section 13.

**Special Hazards:** None to specifically mention.

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### 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

**Personal Precautions:** Avoid contact with skin and eyes. See Section 8 for personal protective equipment.

**Environmental Precautions:** Do not allow product to enter drains or watercourses. When the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

**Spills:** Provide adequate ventilation and wear protective clothing. Sweep up and place the material into a clean, dry container and cover for subsequent disposal according to Section 13. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains or watercourses.

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## 7. HANDLING AND STORAGE REQUIREMENTS

**Handling:** Avoid contact with eyes and skin. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Remove clothing immediately if the product gets inside. Wash skin thoroughly using non-abrasive soap and put on clean clothing. Water used to clean equipment must be disposed of correctly to avoid contamination.

**Storage:** Store below 40 °C. Keep out of reach of unauthorized persons, children and animals. Store on its original labelled container in shaded, well ventilated area. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Acceptable Daily Intake (ADI):** No data available.

**Engineering Controls:** It is essential to provide adequate ventilation. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

### Personal Protective Equipment:

**Clothing:** Long-sleeved shirt, long pants, shoes plus socks, protective waterproof (impermeable) gloves. Employee must wear appropriate protective clothing and equipment to prevent prolonged skin contact with this product.

**Gloves:** Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance

**Eye Protection:** Wear eye protection. Where there is any possibility that an employee's eyes may be exposed to this substance the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

**Respiratory:** There are no special respiratory requirements when the product is handled according to the set instructions.

**Other Protection:** Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Wash accurately (preferably a shower) after a work shift. Wash hands during breaks and at the end of the work with soap and water.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Small blocks, dark blue in colour.

**Flammability:** Non-flammable

**pH:** 9

**Relatively Density:** 1.05

**Boiling Point:** 190 °C

**Solubility:** Not soluble.

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## 10. STABILITY AND REACTIVITY

**Stability:** The product is stable if handled and stored as prescribed.

**Conditions to Avoid:** Avoid excessive heat.

**Incompatible Materials:** Avoid strong bases, strong acids and strong oxidizing agents.

**Decomposition Products:** No hazardous decomposition products will form if stored and handled as prescribed.

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the active ingredient toxicity.

**Acute Oral LD<sub>50</sub> (rat):** 1.8 mg/kg. Highly toxic.

**Acute Dermal LD<sub>50</sub> (rabbit):** 63 mg/kg.

**Acute Inhalation LC<sub>50</sub> (rat, 4 hr):** 0.003 – 0.006 mg/l.

**Skin and Eye Irritation (rabbit):** Not irritating to skin and eyes. Can cause serious eye damage.

**Skin Sensitization (rabbit):** No data available.

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity is based on the active ingredient toxicity.

**Aquatic Toxicity Fish LC<sub>50</sub> (96 hr):** 0.06 mg/l.

**Aquatic Toxicity Daphnia LC<sub>50</sub> (48 hr):** 0.5 mg/l (daphnia magna).

**Aquatic Toxicity Algae EC<sub>50</sub> (5 days):** No data available.

**Avian Toxicity LD<sub>50</sub> (9 days):** No data available.

**Bee Toxicity LD<sub>50</sub>:** No data available.

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## 13. DISPOSAL CONSIDERATION

**Pesticide Disposal:** Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill or incinerator. Do not discharge into drains or sewers. Do not contaminate crops, grazing, rivers or dams with chemical or used containers. Waste resulting from the use of this product that cannot be re-used or reprocessed should be disposed of in a landfill approved for pesticide disposal in accordance with applicable local procedures. Comply with any local legislation applying to waste disposal.

**Package Product Wastes:** Emptied containers retain product residues. Do not re-use product containers. Observe all labelled safeguards until container is reconditioned or destroyed. Combustible container should be disposed of in pesticide incinerators or buried in an approved landfill.

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## 14. TRANSPORT INFORMATION

**Un Number:** 3027

**Class:** 6.1

**Packaging Group:** III

**Shipping Name:** Coumarin Derivative Pesticides; Solid; Toxic (contains Difenacoum)

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## 15. REGULATORY INFORMATION

**Risk Phrases:** R20/22- Harmful by inhalation and if swallowed.

**Safety Phrases:** S1/2- Keep locked up and out of reach children.

S13- Keep away from food, drink and animal feeding-stuffs.

S24/25- Avoid contact with skin and eyes.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S56- Dispose of this material and its container to hazardous or special waste collection point.

**National Legislation:** This product is registered under Act 36 of 1947 of the Republic of South Africa. It is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions.

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## 16. OTHER INFORMATION

**Note:** Read and understand all the information on the product label before using the product.

**Disclaimer:** The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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