

MATERIAL SAFETY DATA SHEET

TERMITE GEL

ISSUE 01

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SEPTEMBER 2013

1 PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: TERMITE GEL - TERMITE BAIT
CHEMICAL FAMILY: PHENYLPYRAZOLE INSECTICIDE
PRODUCT DESCRIPTION: INSECTICIDE FOR TERMITE CONTROL
MANUFACTURER: RPC PEST CONTROL COMPANY
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2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS CONTRIBUTING TO THE HAZARD:

FIPRONIL	0.05%
CAS NUMBER 120068-37-3	E.C. NUMBER: 424-610-7
SYMBOLS:	T, N
R-PHRASES	R23/24/25 – R48/25 – R50/53 – R55 – R57
S-PHRASES	S26 – S36/37/39 – S45 – S60 – S61
DENATONIUM BENZOATE	0.001%
N-[2-(2, 6-Dimethylphenyl)amino]-2-oxoethyl]-N,N, diethylbenzethanaminium benzoate	
CAS NUMBER 3734-33-6	E.C. NUMBER: 223-09-52
SYMBOLS:	Xn
R-PHRASES:	R20/22 - R38 - R41 - R52/53

Full text of R-Phrases and S-Phrases of the product: see section 15

3 HAZARDS IDENTIFICATION

Caution! May be harmful by prolonged exposure and if is swallowed. Harmful to aquatic organism, may cause long term adverse effects in the aquatic environment. Harmful to bees.

Physical State: gel
Appearance: colorless
Routes of exposure: Ingestion, skin contact, eye contact.
Immediate effects:
Skin: May be minimally irritating following prolonged direct contact. Avoid contact with skin and clothing.
Ingestion: May be harmful if swallowed. Do not take internally.

4 FIRST AID MEASURES

General: When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 15 minutes, and then continue rinsing eyes. Get medical attention if irritation develops and persists.

Skin: Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Inhalation: Due to the nature of this product inhalation is unlikely.

Ingestion: If swallowed immediately contact a doctor or Poisons Center and follow the advice given. Keep under medical supervision. Symptoms observed in the few cases of human poisoning in literature include nausea vomiting, profuse sweating, drowsiness, agitation, coma and seizures (severe cases). From animal experiments, hyperactivity, irritability and tremors can be expected. Do not induce vomiting

Notes to physician:

Fipronil is an insecticide inhibiting GABA_a-gated chloride channels. A high affinity for insect compared to mammalian (also human) GABA receptors results in lower animal toxicity than other insecticides inhibiting the same mechanism. There isn't specific antidote. Symptomatic treatment.

5 FIRE – FIGHTING MEASURES

Extinguishing media: Carbon dioxide, dry agent, water spray, foam.

Hazard for combustion products: In the event of fire, carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides, hydrogen chloride and hydrogen fluoride may be released.

Precautions for fire fighters: Fire fighters should wear full protective gear including self-contained breathing apparatus. Keep unnecessary people away and move other personnel to windward side of fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.

6 ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment and emergency procedures: No special requirements. Use personal protective equipment. Avoid direct contact with releasing product.

Environmental precautions: Do not allow to enter drains, groundwater, soil and open water courses.

6 ACCIDENTAL RELEASE MEASURES – (CONTINUATION)

Methods and material for containment and cleaning up: Protect damage packaging. Collect spilled product into suitable containers, which can be labeled and sealed. Utilize collected material in accordance with regulations. Wash contaminated surface with plenty of water.

7 HANDLING AND STORAGE

Precautions for safe handling: No special measures necessary if stored and handled correctly. Read label before use.
Observe good personal hygiene and wear protective clothing in accordance with information on label or set out in section 8.

Special measures for protection against fire and explosion: No special precautions necessary. The product is non-combustible. Product is not explosive.

Industrial hygiene:

- Ensure good ventilation (overall and local exhausted ventilation)
- Ensure place for eyes and skin rinsing
- Wash hands with soap and water before eating, smoking and after work
- Use general caution while working with chemical substances

Conditions for safe storage, including any incompatibilities:

Keep only in the original container

Protect from temperatures above 40° C

Keep the product away from children, food, beverage and animal feed. Keep away from odorous materials

The product retains its physical and chemical properties for at least 3 years if stored in original, unopened containers, at moderate temperatures

Specific and use(s): biocide product

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit value: There is not exposure standard to dangerous components of this product.

Exposure controls

Technical exposure controls: adequate ventilation.

Personal protection:

- a) **Respiratory protection-** is not required.
- b) **Hand protection-** wear protective gloves.
- c) **Eye protection-** no special requirements.
- d) **Skin protection-** no special requirements.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION- (CONTINUATION)

Professional pest control product: Avoid contact with the skin, eyes and clothing. Wash hands after use.
Take off immediately all contaminated clothing. Store working cloth separately.
Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift.

Environmental exposure controls: Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gel colorless
pH: 6.0 – 7.0 (Determined at 1% suspension in water).
Flash point: Not flammable.
Density: 0,95-1,15 g'/ml

10 STABILITY AND REACTIVITY

Reactivity: Under the properly conditions of storage and handing – no reactivity

Chemical stability: Stable under normal conditions (see Section 7 – storage conditions)

Possibility of hazardous reactions: No

Conditions to avoid: High temperature, high humidity

Incompatible materials: Odorants, perfumes, etc.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

Acute Oral Toxicity LD50 (rat): > 2000 mg/kg

Ingestion by human is unlikely due to presence of alert substance – 20 ppm of denatonium chloride

Acute Dermal Toxicity LD50 (rat): > 2000 mg/kg

Acute Inhalation Toxicity LD50 (rat): no data

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitisation: No data available

Germ cell mutagenicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of mutagenic substances.

Carcinogenicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.

11 TOXICOLOGICAL INFORMATION – (CONTINUATION)

Reproductive toxicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances.

Aspiration hazard: No data available.

Other information: Product poses no danger to humans associated with the normal use and work with the product.

Toxicological data for hazardous ingredient-fipronil:

Acute toxicity:

Acute Oral Toxicity LD50 (rat): 97 mg/kg

Acute Dermal Toxicity LD50 (rat): > 2000 mg/kg

Acute Inhalation Toxicity LC50 (rat): 0,36 mg/dm³/4h

Routes of exposure: Inhalation, ingestion, skin and eye contact

Potential health effects:

Inhalation- toxic in inhaled, may cause respiratory tract irritation.

Ingestion- toxic if swallowed

Skin- cause skin irritation, toxic if absorbed through skin. Easy absorbed through skin

Eye- cause eyes irritation

12 ECOLOGICAL INFORMATION

Toxicity:

Acute Toxicity to fish (trout) LC50 (96h): > 1000 mg/dm³

Acute Toxicity to aquatic invertebrates (daphnia) EC50 (48h): 16 mg/dm³

Acute Toxicity to algae IC50 (72h): 693,1 mg/dm³

Persistence and degradability: No data

Bioaccumulative potential: No data

Mobility in soil: No data

Results of PBT and vPvB assessment: No data

Other adverse effects:

Product isn't classified as harmful to the aquatic environment.

Take care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

Ecotoxicological data for hazardous ingredient- fipronil:

Acute Toxicity to fish (Oncorhynchus mykiss): LC50 (96h): 0,25 mg/dm³

Acute Toxicity to fish (Lepomis macrochirus): LC50 (96h): 0,085 mg/dm³

Acute Toxicity to fish (Cyprinus carpio): LC50 (96h): 0,19 mg/dm³

Acute Toxicity to aquatic invertebrates (Daphnia magna) EC50 (48h): 0,068 mg/dm³

13 DISPOSAL CONSIDERATION

General Disposal: Follow container label instructions for disposal wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.

Container Disposal: Wrap and discard in trash.

14 TRANSPORT INFORMATION:

ADR: Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR.

Further information: Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR.

15 REGULATORY INFORMATION, CLASSIFICATION AND LABELING ACCORDING TO EEC DIRECTIVE

R- PHRASES:

R22: HARMFUL IF SWALLOWED

R51/53: TOXIC TO AQUATIC ORGANISM, MAY CAUSE LONG-ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

R57: TOXIC TO BEES

S- PHRASES:

S2: KEEP OUT OF REACH OF CHILDREN

S3: KEEP IN A COOL PLACE.

S20/21: WHEN USING DO NOT EAT, DRINK OR SMOKE.

S24/25: AVOID CONTACT WITH SKIN AND EYES.

S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH A PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S27: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

S28: AFTER CONTACT WITH SKIN WASH IMMEDIATELY WITH PLENTY OF SOAP AND WATER.

S29: DO NOT EMPTY INTO DRAINS.

S45: IN CASE OF ACCIDENT OF IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE)

S62: IF SWALLOWED DO NOT INDUCE VOMITING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

CONTAIN SUBSTANCES WHICH ARE DANGEROUS FOR THE AQUATIC ENVIRONMENT. LOCAL REGULATIONS, IF ANY, SHOULD BE APPLIED TO CLASSIFICATION AND LABELLING.



THE MINISTRY OF ENVIRONMENT PROTECTION DETERMINED THAT THE USAGE OF THIS PRODUCT/ SUBSTANCE IN CONTRADICTION TO THE ENCLOSED INSTRUCTION MAY ENDANGER THE ENVIRONMENT AND PUBLIC HEALTH AND IS AGAINST THE LAW.

This MSDS summarizes 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 information contained in this sheet is based on the knowledge of the product at the date of publication and is given in good faith.

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SIGNED: TRIGUBOFF BERNARDO

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