



Development, Production, and Marketing of advanced pest control solutions

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MATERIAL SAFETY DATA SHEET

GRANULAR INSECTICIDE

ISSUE 01

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DECEMBER 2016

1 PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: GRANULAR- LITTLE FIRE ANT GRAIN BAIT CHEMICAL FAMILY:
PHENYLPYRAZOLE INSECTICIDE
PRODUCT DESCRIPTION: INSECTICIDE FOR FIRE ANT CONTROL
MANUFACTURER: RPC PEST CONTROL COMPANY
P.O.BOX 128 – NES HARIM 99885 - ISRAEL
TEL.: 1700-500-405 - e-mail: misrad@rpc.co.il

2 HAZARDS IDENTIFICATION

LABELLING

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.

GHS Signal word: NONE. Not hazardous.



HAZARD STATEMENT:

H400: Very toxic to aquatic life.

PREVENTION



2 HAZARDS IDENTIFICATION

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

RESPONSE

P352: Wash with plenty of soap and water.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

Routes of exposure: Ingestion, skin contact, eye contact.

Immediate effects: No significant signs of systematic toxicity were observed in animals exposed to very high oral, dermal or inhalation dosages of the product.

Eye Contact: This product can cause brief and/or minor eye irritation. The expected adverse health effects resulting from an exposure may include redness and possible swelling.

Skin: This product can cause brief and/or minor irritation. The expected adverse effects resulting from an exposure may include redness and possibly some minor swelling. This product is not expected to cause allergic reactions.

Ingestion: May be harmful if swallowed. Do not take internally.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS CONTRIBUTING TO THE HAZARD:

FIPRONIL 0.050%

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

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



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. Obtain medical attention if irritation persists, or if particles are lodged in surface of the eye(s).

Skin: Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Inhalation: If inhaled, move the person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a physician.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Notes to physician: There is no specific antidote if this product is ingested.

5 FIRE – FIGHTING MEASURES

Suitable extinguishing media: dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons: carbon dioxide

Specific hazards: carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulfur oxides, organochloric compounds. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

Further Information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6 ACCIDENTAL RELEASE MEASURES

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include cotton, rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that dusts are likely to build up in cleanup area, we recommend that you use a suitable dust mask.

Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on



6 ACCIDENTAL RELEASE MEASURES

the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

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

Keep the product away from children, food, beverage and animal feed. Keep away from odorous materials. Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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.

Personal protection: No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Eye Protection: Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Respiratory protection- is not required.



8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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:	Granules
Colour:	Grey
pH:	6.0 – 7.0 (Determined at 1% solution).
Flash point:	Not flammable.
Solubility:	Soluble in water
Density:	0.80 – 1,00 g/cm ³

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

Assessment of acute toxicity: Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

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): 5.16 mg/l 4h

Inhalation:

Short Term Exposure: Available data indicates that this product is not harmful. However, product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition, product is unlikely to cause any discomfort in normal use.



11 TOXICOLOGICAL INFORMATION

Eye Contact:

Short Term Exposure: This product is likely to be mechanically irritating. If exposure is minor or brief, no long term effects should result. However, if material is not removed promptly, scratches to surface of the eye may result with long term consequences.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product may be mildly irritating to mucous membranes but is unlikely to cause anything more than mild transient discomfort.

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.

Information on: Fipronil

Assessment of carcinogenicity:

In long-term studies in rats the substance induced thyroid tumors. The effect is caused by an animal specific mechanism that has no human counter part. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.

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

Information on: Fipronil

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

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

ECOTOXICITY

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment.



12 ECOLOGICAL INFORMATION

Information on: fipronil

Toxicity to fish:

LC50 (96 h) 0.25 mg/l, *Oncorhynchus mykiss*

LC50 (96 h) 0.0852 mg/l, *Lepomis macrochirus*

LC50 (96 h) 0.43 mg/l, *Cyprinus carpio*

Aquatic invertebrates:

EC50 (48 h) 0.19 mg/l, *Daphnia magna*

LC50 (96 h) 0.00014 mg/l, *Mysidopsis bahia*

Aquatic plants:

EC50 (96 h) 0.068 mg/l (biomass), *Scenedesmus subspicatus*

MOBILITY

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Persistence and degradability:

Assessment biodegradation and elimination (H₂O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

Assessment biodegradation and elimination (H₂O): Not readily biodegradable (by OECD criteria).

Bioaccumulation potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: fipronil

Bioaccumulation potential:

Bioconcentration factor: 321, *Lepomis macrochirus* Accumulation in organisms is not to be expected.

Other adverse effects:

Product is classified as harmful to the aquatic environment and bees

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.



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14 TRANSPORT INFORMATION:

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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

See paragraph 2

16 OTHER INFORMATION

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

TECHNICAL & CHEMICAL CONSULTANT