



## MATERIAL SAFETY DATA SHEET KING GEL

ISSUE 0 **2**

PAGE 01 OF 06

**APRIL 2016**

**1** PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: KING GEL COCKROACHES KILLER  
CHEMICAL FAMILY: PHENYLPYRAZOLE INSECTICIDE  
PRODUCT DESCRIPTION: INSECTICIDE FOR COCKROACH CONTROL  
MANUFACTURER: Green Place LTD  
Kibbutz Gvat 3657900, Israel  
TEL.: +972-9-9668866  
e-mail: shay@greenplace.co.il

**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:	clear brown
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<sub>a</sub>-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 precautions: Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.



6 ACCIDENTAL RELEASE MEASURES – (CONTINUATION)

Methods of cleaning up: Collect and transfer the product into a properly labeled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice: Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

7 HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with eyes, clothing and skin. After handling and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Storage: Store in closed original container in a cool, well ventilated, locked place out reach of children. Do not store in direct sunlight. Keep away from food, drink and animal feeding stuffs.

8 EXPOSURE CONTROLS (PERSONAL PROTECTION)

General Protection: There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed. Avoid contact with skin and eyes. Follow all label instructions.

Exposure limits: Fipronil "OES" 0.035 mg/m<sup>3</sup>

Personal protective Equipment:

Eyes: Not normally required. Avoid touching eyes while handling product.

Clothing: Avoid skin contact.

Gloves: Avoid contact with skin; wear waterproof gloves.

Respiratory: Not required

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: gel  
pH: 6.0 – 7.0 (Determined at 1% suspension in water).  
Flash point: Not flammable.  
Density: 0,95-1,15 gr/cm<sup>3</sup>



10 STABILITY AND REACTIVITY

Chemical stability: stable under normal conditions of use. No dangerous reaction known under normal conditions.

Incompatibility: strong acid, bases and oxidizing agents.

Decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides, hydrogen chloride and hydrogen fluoride may be released.

Conditions to avoid: Extreme heat and fire.

11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: rat LD50: > 5,000 mg/kg.  
Acute Dermal Toxicity: rat LD50: > 2,000 mg/kg.  
Acute Inhalation Toxicity: rat LC50: > 2.9 mg/l Exposure time: 4 h.  
Skin Irritation: rabbit: slight irritation.  
Eye irritation: rabbit: no eye irritation.  
Sensitization: guinea pig: non-sensitizing.

Chronic Toxicity: Fipronil cause liver, kidney or thyroid effects and/or neurobehavioral effects in chronic toxicity studies in rats and dogs. Fipronil do not induce ant microscopic lesions in the neutral tissues.

Assessment carcinogenicity: Fipronil is not considered to pose an increased risk of cancer to humans. Similar studies in mice and dogs did not show and increased incidence of thyroid tumors.

Reproductive and Developmental Toxicity: Fipronil was not considered a primary reproductive toxicant in rats. Fipronil was not a developmental toxicant in rats and rabbits.

Mutagenicity: Fipronil was not mutagenic and not teratogenic.

12 ECOLOGICAL INFORMATION

Harmful to aquatic life. DO NOT contaminate streams, rivers, waterways with the chemical or used containers.

Fish Toxicity (technical Fipronil) : LC50 (96H): 85 mg/l bluegill sunfish  
248 mg/l rainbow trout  
Daphnia Toxicity (technical Fipronil): LC50 (48H): 0.19 mg/l daphnia.  
Toxicity to algae (technical Fipronil): EC50 (96H) 0.068 mg/l  
*Scenedesmus subspicatus*.  
Bird Toxicity (technical Fipronil): LD50 > 2000 mg/kg mallard duck



12 ECOLOGICAL INFORMATION – (CONTINUATION)

Bee Toxicity: Highly toxic to honeybees both by direct contact and by ingestions.  
Other: Not toxic to earth towns.

Environmental fate, persistence and degradation:

Fipronil is ready degraded in soil.

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.



15	REGULATORY INFORMATION, CLASSIFICATION AND LABELING ACCORDING TO EEC DIRECTIVE – (CONTINUATION)
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S28: AFTER CONTACT WITH SKIN WASH IMMEDIATELY WITH PLENTY OF SOAP AND WATER.

S29: DO NOT EMPTY INTO DRAINS.

S45: IN CASE OF ACCIDENT OR 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.

16	OTHER INFORMATION
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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.

ISSUE 0 **2**

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SIGNED: TRIGUBOFF BERNARDO

TECHNICAL & CHEMICAL CONSULTANT