

## Material Safety Data Sheet כל-פט חזק אבקה Kol-Pet strong powder

Date of Pre Revised: 06.09.2012

Revised: 30.04.2015 (Name and logo update)

### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

**Common name:** Kol-Pet

**Use:** Insecticide

**Formulation Type:** DP

**Manufacturer:** Tapazol Chemical works Ltd.

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (%)
Pernethrin	52645-53-1	2

### 3. HAZARDS IDENTIFICATION

**Emergency overview:** White powder. Thermal decomposition and burning may form toxic by-products. For larger exposure or fire, wear personal protective equipment.

Highly toxic to fish and aquatic organisms. Keep out of drains and watercourses.

**Potential health effects:** Effects from overexposure result from inhalation or coming into contact with the skin. Symptoms of exposure include diarrhea and salivation. Contact with this product rarely produces reversible skin sensations such as numbing, burning and tingling.

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#### 4. FIRST AID MEASURES

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**Eyes:** Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

**Skin:** Wash with plenty of soap and water.

**Ingestion:** Drink one or two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Contact a doctor.

**Inhalation:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

**Note to physician:** Permethrin has low oral, dermal and inhalation toxicity, is minimally irritating to the eyes and practically non-irritating to the skin. Reversible skin sensation (paresthesia) may occur and ordinary skin salves has been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic-and supportive care.

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#### 5. FIRE-FIGHTING MEASURES

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**Flash point:** Not flammable.

**Extinguishing media:** Foam or water as per neighboring products.

**Protective equipment:** Non explosive.

**Hazardous products of combustion may include:** Carbon monoxide and carbon dioxide. Minor quantities of chlorine and hydrogen chloride may be formed.

**Special fire fighting procedures:** Isolate fire area. Evacuate downwind.

Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke gases or vapor generated.

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## 6. ACCIDENTAL RELEASE MEASURES

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Isolate and post spill area. Prevent dust formation. Wear personal protective equipment as prescribed in Section 8."Exposure Controls Personal Protection". Keep unprotected persons and animals out of the area. Keep material out of streams and sewers-Shovel to an empty drum. Follow this by washing with a strong soap and water solution.

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## 7. HANDLING AND STORAGE

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Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame and hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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**Eye protection:** wear protective goggles.

**Respiratory protection:** Wear dust-mask.

**Ventilation:** Use in a well-ventilated area.

**Hand protection:** Wear chemical protective gloves made of PVC or latex.

**Work Clothing:** wear long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a rubber rain suit. Launder all work clothing before reuse (separately from household laundry).

**Personal hygiene:** Clean water should be available for washing in case of

eye or skin contamination. Wash skin prior to eating, drinking or smoking.  
Shower at the end of the workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** White powder.

**Melting/Boiling point:** Not applicable.

**Flash point:** Not applicable.

**Water solubility:** insoluble.

**Specific gravity:** 2.6.

**pH:** Not applicable .

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## 10. STABILITY AND REACTIVITY

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**Conditions to avoid:** Excessive heat and fire

**Hazardous polymerization:** Will not occur

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## 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity for Permethrin tech:

**Oral:** 1500 mg/ kg (rat - oral)

**Dermal:** LD<sub>50</sub>>2000 mg/ kg (rabbit - dermal)

**Inhalation:** LC<sub>50</sub>> 685 mg/m<sup>3</sup> 3h (rat - inhalation)

### Acute toxicity for formulated product

**Oral:** LD<sub>50</sub>>10,000 mg/ kg (rat - oral)

**Dermal:** LD<sub>50</sub>>10,000 mg/kg (rabbit - dermal)

**Inhalation** LC<sub>50</sub>>6805 mg/m<sup>3</sup> 3h (rat - inhalation)

**Effects from overexposure:** Toxic doses of Permethrin administered to laboratory animals have produced symptoms such as diarrhea, salivation,

tremors and intermittent convulsions. Overexposure of animals to Permethrin via inhalation has also produces hyperactivity and hypersensitivity.

**Chronic effects from overexposure:** In studies with laboratory animals, Permethrin did not cause reproductive toxicity or teratogenicity. Analysis of chronic feeding studies in both mice and rats with Permethrin resulted in the conclusion that Permethrin's potential for induction of oncogenicity in experimental animals is low and that the likelihood of oncogenic effects in humans is non-existent or extremely low. Long term feeding studies in animals resulted in increased liver and kidney weights, induction of the liver microsomal drug metabolizing enzyme system and histopathological in the lungs and liver. An overall absence of genotoxicity has been demonstrated in mutagenicity testing with Permethrin.

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## 12. ECOLOGICAL INFORMATION

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**Physical environmental properties:** Permethrin itself has a moderate rate of degradation in soil and the half-life is related to the soil type, microbial population, and concentration in the soil and the aerobic condition of the soil. Because of its high affinity for organic matter ( $K_{oc}=86,000$ ), there is little potential for movement in soil or entry into ground water. Permethrin has a Lov Pow of 6.1, but because of the ease with which biological systems degrade the molecule, the potential for bioconcentration and accumulation in the environment is low ( $BCF=500$ ).

### **Environmental toxicology:**

Permethrin formulation is highly toxic to fish ( $LC_{50}=0.5\mu g/L$  to  $7.6\mu g/L$ ). Marine species are often more sensitive than the freshwater species. Bacteria, algae, mollusks and amphibians are much more tolerant of Permethrin than the fish and arthropods. Care should be taken to avoid contamination of the aquatic environment.

Permethrin is slightly toxic to birds and oral LD50 values are greater than

Longer dietary studies showed that concentrations of up to 500 ppm in the diet had no effect on bird reproduction.

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### 13. DISPOSAL CONSIDERATIONS

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Open dumping or burning of this pesticide or its packaging is prohibited.  
Spilled material to be disposed of according to label instructions and to local environmental laws.  
Container which held these pesticides should be dumped to the garbage.  
Do not use empty container for any other use.

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### 14. TRANSPORT INFORMATION

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UN no.: non regulated

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### 15. REGULATORY INFORMATION

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**R phrases:**

Xn Harmful

N Very toxic to aquatic organisms

**S phrases:**

S 52 Keep out of reach of children . S13 Keep away from food, drink and animal feeding stuffs.

S 20 21 When using, do not eat, drink or smoke.

S49 Keep only in the original container .

S 61 Avoid release into the environment.

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## 16. OTHER INFORMATION

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