



## MATERIAL SAFETY DATA SHEET

MAGNet™ Insecticide Incorporated Long Lasting Insecticidal Net for use and distribution as bed nets

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME</b>	MAGNet™
<b>PRODUCT INFORMATION</b>	Insecticide incorporated long lasting insecticidal net to be used as bed nets
<b>COMPANY NAME</b>	V.K.A.POLYMERS PRIVATE LTD
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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**CHEMICAL NAME:** NA

**PRODUCT CODE:** MAGNet

**HAZARDOUS INGREDIENTS / COMPONENTS:**

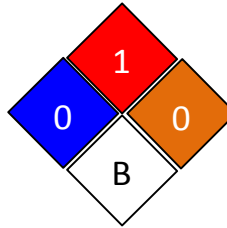
Chemical Name	CAS Number	Composition	Hazard code	R-phrases
Alpha-cypermethrin*	67375-30-8	0.58 g/kg ± 25%	Xn, N	25, 37, 48/22, 50/53
High density polyethylene	25087-34-7/ 25896-47-0	> 95%	-	
Inert ingredients <sup>§</sup>	NA	< 5%	-	



\*A racemic mixture comprising (*R*) and (*S*) isomers of  $\alpha$ -cyano-3-phenoxybenzyl -3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; CIPAC No. 454.

§ Proprietary additives

### 3. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW					
Potential Health Hazards					
ACUTE	Inhalation	Skin contact	Eye Contact	Ingestion	Fire
	Inhalation of dust may cause irritation	Mild Irritation	Irritation	The polymer is inert and harmless but the insecticide may get ingested and decomposes	The polymer
*HMIS®	<b>HEALTH</b>	<b>FLAMMABILITY</b>	<b>PHYSICAL HAZARD</b>	§PERSONAL PROTECTION	
	<b>0</b>	<b>1</b>	<b>0</b>	<b>B</b>	

**\*HMIS – Hazardous Materials Identification System**

- 4-Life-threatening, major or permanent damage may result from single or repeated overexposures.
- 3-Major injury likely unless prompt action is taken and medical treatment is given.
- 2-Temporary or minor injury may occur.
- 1-Irritation or minor reversible injury possible.
- 0-No significant risk to health.

§B – Use gloves and goggles

### 4. FIRST – AID MEASURES

**EYES:** Flush with plenty of water. Get medical attention if irritation occurs and persists.

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



**INGESTION:** Drink 1 or 2 glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Contact a medical doctor.

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

*Note: This product has low oral and dermal toxicity. It is minimally irritating to the eyes, and non-irritating and non-sensitizing to the skin. New nets and nets stored for a long period may cause more irritation to eyes and skin. To avoid this it is preferred to keep the net under ventilation for 24 hours before start using. Washing with soap water and applying olive oil have been found useful in reducing discomfort.*

## 5. FIRE FIGHTING MEASURES FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub> or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

**FIRE/ EXPLOSION HAZARDS:** Slightly combustible. This material may support combustion at elevated temperatures.

**FIRE FIGHTING PROCEDURES:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Eye protection and gloves

**ENVIRONMENTAL PRECAUTIONS:** Keep out of lakes, rivers and ponds.

**METHOD FOR CLEANING UP:** Sweep up and remove to a clearly marked container for disposal in accordance with local regulations

## 7. HANDLING AND STORAGE

**HANDLING:** Use gloves

**STORAGE:** Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Keep out of reach of children and animals.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**ENGINEERING MEASURES:**

**PERSONAL PROTECTIVE EQUIPMENT**

**RESPIRATORS:** NA

**EYE PROTECTION:** Safety goggles



**GLOVES:** Wear chemical protective gloves made of neoprene etc.

**WORK HYGIENIC PRACTICES:** Wash hands with soap and water before eating. Do not smoke and eat while handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**FORM OR APPEARANCE:** Warp knitted nets

**COLOR:** White, blue, green or others (different custom colors)

**ODOR:** Odorless

**FLASH POINT:** NA

**MELTING POINT:** 132°C

**FLAMMABLE LIMITS:**

**AUTO IGNITION TEMPERATURE:** NA

**EXPLOSIVE PROPERTIES:** Not an explosion hazard

**OXIDISING PROPERTIES:** NA

**SOLUBILITY IN WATER:** Practically Insoluble

## 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur

**HAZARDOUS DECOMPOSITION PRODUCT(S):** Carbon monoxide, carbon dioxide and hydrogen chloride

**CONDITIONS TO AVOID:** Strong oxidants, excessive heat, spark and open flame

**MATERIALS TO AVOID:** Strong alkalis, acids and oxidizing agents.

## 11. TOXICOLOGY INFORMATION

**ACUTE ORAL TOXICITY:** LD 50 > 2000 mg/kg (rat) category V

**SKIN CONTACT (DERMAL – LD50):** Not an irritant

**EYE CONTACT:** Not an irritant

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** The active substance (AS) is toxic to aquatic organisms

**PERSISTENCE AND DEGRADATION:** AS is not a persistent organic chemical, degraded by soil.



**TOXICITY TO OTHER ORGANISM:** Toxic to aquatic organism such as fish

**EFFECT ON EFFLUENT TREATMENT:** NA

**13. DISPOSAL CONSIDERATIONS**

**PRODUCT & CONTAMINATED PACKAGING:** Dispose of waste in accordance with governmental or local authority's regulations. Do not contaminate water by disposal of waste.



**14. TRANSPORT INFORMATION**

Not classified as a dangerous good under transport regulations (ADR RID ADNR IMDG/GGV See ICAO/IATA)

**15. OTHER INFORMATION**

Text of the risk phrases (R-phrases) allocated to the ingredient in section 2 of this MSDS:

- R22 Harmful if swallowed
- R25 Toxic if swallowed
- R37 Irritating to respiratory system
- R38 Irritating to skin
- R41 Risk of serious damage to eyes
- R48: Danger of serious damage to health by prolonged exposure
- R50: Very toxic to aquatic organisms
- R53: May cause long-term adverse effects in the aquatic environment

Hazard code **Xn**: Harmful ; **N**: Dangerous to environment 

**DISCLAIMER**

The data provided in this MSDS are based on the current state of knowledge, and are intended to describe the product with regard to the requirement of safety. VKA Polymers Private Limited provides no warranty either express or implied and assumes no responsibility for the accuracy of the completeness of the data. Recipients are advised to confirm any data, in advance of need, that it is current, applicable to the circumstances. It is the responsibility of the user to ensure to his/her satisfaction the product is suitable for the intended purpose and method or use.

**DOCUMENT HISTORY**

Document	Compiled & Prepared by	Issue No.	Date	Revision No.
MSDS	Dr. R. Natarajan	2	July 28, 2013	1