



MATERIAL SAFETY DATA SHEET

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

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	MAGNet™
PRODUCT INFORMATION	Insecticide incorporated long lasting insecticidal net to be used as bed nets
COMPANY NAME	V.K. A. Polymers Private Limited
ADDRESS	3A Coimbatore Road, Karur, Tamil Nadu, India 639002
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PRODUCT SAFETY	anand@vkapolymers.com (or) rn@vkapolymers.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME: NA

PRODUCT CODE: MAGNet

HAZARDOUS INGREDIENTS / COMPONENTS:

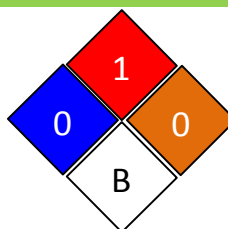
Chemical Name	CAS Number	Composition	Hazard code	R-phrases
Alpha-cypermethrin*	67375-30-8	0.58 g/kg ± 25%	Xn, N	25, 37, 48/22, 50/53
High density polyethylene	25087-34-7/ 25896-47-0	> 95%	-	
Inert ingredients [§]	NA	< 5%	-	



*A racemic mixture comprising (*R*) and (*S*) isomers of α -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[®]	HEALTH	FLAMMABILITY	PHYSICAL HAZARD	§PERSONAL PROTECTION	
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***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, CO₂ 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