



# Kumar Organic Products Limited

## INGREDIENTS FOR US

### CERTIFICATE OF ANALYSIS REPORT

**PRODUCT** : KOPHTHIONE (ZINC PYRITHIONE 50%) FINE PARTICLE SUSPENSION

**PRODUCT CODE**

Mfg. License No.

Batch no.

Date of Manufacturing

Date of Expiry

Date of Analysis

A/R No.

Quantity

Reference

1000 Kg (25Kg X 40 No. of HDPE carboys)  
IN HOUSE SPECIFICATION

Sr.No	TESTS	SPECIFICATION	OBSERVATION
01	Appearance	Off white aqueous dispersion Free from signs of impurities	Off white aqueous dispersion Free from signs of impurities
02	Whiteness Index on glass base using Konica Minolta Chromameter CR-400	Not Less Than 80	81
03	Identity (By IR)	Conforms with the standard spectrum of Zinc Pyrithione	Conforms with the standard spectrum of Zinc Pyrithione
04	Colour	Very Mild Characteristic odour	Very Mild Characteristic odour
05	Assay (By Titrimetric Method)	48.0-50.0% w/w	49.2% w/w
06	Zinc Content (By Titrimetric Method)	9.3-11.3% w/w	10.2% w/w
07	pH (5% slurry in distilled water adjusted to pH 7)	6.5-9.0	7.3
08	Particle Size Distribution using Malvern particle size analyser Mastersizer 2000 with Hydro 2000 S	90% particles less than 1 Micron	0.7 Micron
09	Iron (by AAS / ICP-OES)	Not More Than 10 ppm	Less Than 10 ppm
10	Heavy Metals (by AAS / ICP-OES)		
10a	Arsenic	Not More Than 3 ppm	Less Than 3 ppm
10b	Lead	Not More Than 2.5 ppm	Less Than 2.5 ppm
10c	Chromium	Not More Than 3 ppm	Less Than 3 ppm
10d	Copper	Not More Than 3 ppm	Less Than 3 ppm
10e	Nickel	Not More Than 5 ppm	Less Than 5 ppm
10f	Mercury	Not More Than 1 ppm	Less Than 1 ppm
	Total Heavy metals	Not More Than 20 ppm	Less Than 20 ppm

**Storage Condition** : - Store in tightly closed container & Protect from sun light

**Remarks**: The product complies as per above specification

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