

ANTIMICROBIALS

(JUBITHIONE® - ZPT 50, JUBITHIONE® - ZPT 40 and JUBIQUAT - CPC)

Jubilant Life Science's Antimicrobials are completely backward integrated through its Pyridine chemistry & Life science chemicals. We are globally No.1 in the manufacture of Pyridine which is the key starting material of all our Antimicrobials. With complete quality control, ISO certified plants, backward integration and technical services, we are a trusted partner of choice for our globally renowned customers across personal care, paint and coatings segment. Our offering includes:

PRODUCTS

Our commercial range of antimicrobial includes Jubithione -ZPT 50, Jubithione-ZPT 40 and Jubiquat - CPC

SERVICES

We offer Research, Development and Contract Manufacturing services for customised antimicrobial formulation for various applications.

Jubithione® - ZPT 50

Jubithione - ZPT 50 (Zinc Pyrithione 50% FPS), is a highly active, broad-spectrum biocide used in shampoos as Anti-dandruff agent, which yields a stable homogenous dispersion and good aesthetics in shampoos.

End Applications

- Hair care rinse-off & Leave on products (shampoo, lotions)
- Anti-fungal creams

General Information

- Chemical Name: Bis-(2-pyridylthio)- zinc 1, 1'-dioxide
- CAS # 13463-41-7
- EC # 236-671-3
- Registration Status under REACH Regulation: Registered

Specifications

- Appearance: Off-white liquid suspension
- Zinc Pyrithione (% w/w): 48-50
- Zinc Content (%): 9.3-11.3
- Density at 250C (gm/cm³): 1.27-1.30
- pH (5% active ingredient in pH 7 water): 6.5-9.0
- Particle Size (Malvern 2000): 2 microns or less (%) > 90

Dosage Levels

Suggested concentration

- Shampoos: 0.5 - 1.0% based on active

Jubithione® - ZPT 40

Jubithione - ZPT 40 (Zinc Pyrithione 40% FPS), is a white-coloured liquid suspension formulation, ready for direct incorporation in the paint during its formulation. Jubithione-ZPT 40 formulation is a potent antimicrobial with activity towards fungi, algae and bacteria too.

End Applications

Paints & Coating as:

- Dry Film preservative
- In-can preservative

General Information

- Chemical Name: Bis - (2-pyridylthio)-zinc 1,1'-dioxide
- CAS # 13463-41-7
- EC # 236-671-3



Specifications

- Appearance: Off-white liquid suspension
- Zinc Pyrithione %: 38-40
- pH (5% active ingredient in pH 7 water): 8.7 - 9.7

Dosage Levels

Suggested concentration in -

- Indoor Paints: 0.5%
- Outdoor Paints: 1.0%

Jubiquat – CPC

Jubiquat - CPC (Cetylpyridinium Chloride) is an ideal preservative for cosmetic formulations with broad spectrum antimicrobial efficacy imparting high bioavailability. It is also non-corrosive, non-VOC, and non-oxidizing compound with neutral pH. It is safe and efficacious alternative ingredient for Triclosan, Triclocarban, Benzethonium chloride, Parabens and Formaldehyde-Donor. Jubiquat - CPC as antimicrobial is also effective in preventing and reducing plaque-induced gingivitis by acting against oral bacteria such as streptococcus, lactobacillus, staphylococcus, corynebacteria. CPC is one of the two antimicrobial systems (other is essential Oils), considered as safe and efficacious by the US FDA Plaque sub-committee for use in over-the-counter mouthrinses to treat plaque-induced gingivitis.

End Applications

As Preservative in

- Cosmetic formulations, Oral Hygiene and Antiperspirant Deodorants

As Antimicrobial in

- Oral care/Mouthwash, Surgical Gloves, Skin care and Wet Wipes

General Information

- Chemical Name: 1-Hexadecylpyridinium Chloride
- CAS # 6004-24-6
- EC No: 204-593-9
- Registration Status under REACH Regulation: Pre-registered
- Made in India under cGMP, Kosher, and Halal conditions

Specifications

- Appearance: White Powder
- Moisture Content (% w/w, by KF): 4.5%-5.5%
- Melting Range: 80-84°C
- Assay, % w/w (By chemical method): 99-102

Products Under Commercialization

- Copper Pyrithione - Application in Anti-Fouling Paint
- Sodium Pyrithione - Application in Metal Working Fluid, Paint & Coatings Etc
- Per Acetic Acid - Application in Food and beverages, Industrial Water Treatment and Chemical processing etc.

WHY JUBILANT

Backward Integration to the Basic Feedstock

The complete backward integration, (Molasses - Alcohol - Acetaldehyde - Pyridine -2 CP - Zn Pyrithione/CPC) up to the basic Feedstock, is one of the major advantages that company has over the other manufacturers of Zn Pyrithione & CPC. The molasses obtained from sugarcane enables Jubilant to use bio-ethanol as the primary feedstock for the manufacture of Zn Pyrithione & CPC.

RESEARCH CAPABILITIES

Jubilant offers customized antimicrobial formulations for various applications. Our State-of-the-Art Infrastructure and well designed laboratory is capable of performing all sorts of microbiological tests (like Zone of Inhibition test, Time Kill Test, MIC Studies etc) and evaluation studies related to biocides, preservatives and product prototypes as per AOAC, ASTM, EN and BIS standards.

R&D facilities are located at Gajraula (UP) and Noida (NCR) with advance equipment including Malvern Particle size analyzer, ICP OES, Viscometer, UV Spectrophotometer etc.

CARE FOR ENVIRONMENT

Jubilant saves a considerable amount of Greenhouse Gas emissions by using bio-ethanol as its primary feedstock unlike other manufacturers using petro based feed stock (Naphtha). Jubilant saves an estimated 10-30% of CO₂ Emission as compared to its competitors.

GLOBAL REACH

Jubilant has wholly owned subsidiaries with offices in US, Europe and China. Outside India, the company holds warehouses in Belgium, USA and China.

Additionally, Jubilant has global sales and distribution networks worldwide.

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