



Product Information

IPEL® BP-542 S



IPEL® BP-542 S**Uses**

Microbicide for preservation of aqueous coatings in the wet state.

Chemical and physical data

Composition:	Aqueous formulation based on isothiazolinones and hydantoin
Product description:	Colorless to pale yellow or pinkish transparent liquid

Specification

The specification parameters can be found in the currently valid product specification.

Characteristic data*

pH:	4.0 – 6.5
Density (20 °C):	0.98 – 1.08 g/cm ³
Solubility:	Miscible with water, glycols and alcohols
Stability:	Temperature: < 60 °C Light: Stable Ionic: Stable pH: Up to 10 Chemical: May be deactivated in presence of strong reducing or oxidizing agents

*Characteristic data provide further information about the product and are not subject to constant monitoring. They are therefore not binding.

Storage

If correctly stored and kept in the original sealed container, the shelf life is 24 months.

It is recommended to keep it in a ventilated place, away from sunlight, heat, hot surfaces and ignition sources, at temperatures below 35° C and in an area with a waterproof floor and containment system.

IPEL® BP-542 S

Application

IPEL® BP-542 S is a broad spectrum microbicide based on a mixture of isothiazolinones and a hydantoin, with the solubility and efficacy needed to protect formulations in the wet state against aerobic and anaerobic bacteria, fungi and yeasts (in can preservation). It is a product specially developed to protect decorative emulsion paints based on aqueous styrene-acrylic resins, styrene-butadiene, vinyl, alkyd, epoxy and mineral fillers (slurry). Its multi-synergistic composition guarantees full protection to the paint in the can.

Pigment dispersions are characterized by the occurrence of sedimentation over time. In this process, occurs the formation of several different “environments” within the liquid, which promote the growth of microorganisms of different characteristics. At the bottom of the packaging, for example, due to the lower concentration of free oxygen, the growth of anaerobic bacteria predominates. These bacteria reproduce quickly, metabolizing combined oxygen (in the form of SO₂ or NO₂) and being inhibited by free oxygen, abundant in the layers close to the surface. In the upper regions, aerobic bacteria and yeasts often grow. In the space between the lid and the liquid surface, mold growth occurs. In this space, the splashes of material that occur during packing filling or during transportation form a crust of organic matter highly susceptible to microbiological growth. IPEL® BP-542 S acts in all these phases with great efficiency.

IPEL® BP-542 S is highly effective against aerobic and anaerobic bacteria, fungi and yeasts well known as degraders of water based paints. Its broad spectrum of activity includes:

Aerobic bacteria

Bacillus sp
Escherichia sp
Flavobacterium sp
Proteus sp
Pseudomonas sp

Anaerobic bacteria

Clostridium sp
Desulfovibrio sp

Fungi

Aspergillus sp
Fusarium sp
Paecilomyces sp
Penicillium sp

Yeasts

Candida sp
Rhodotorula sp

IPEL® BP-542 S can be used itself or associated with other IPEL® microbicides. Our Technical Department can help you choose the best alternative for your system.

Suggested additions

IPEL® BP-542 S, for being a microbicide for wet state preservation, should be added preferably at the early steps of the manufacturing process in order to avoid any contamination from raw materials used in the production.

Recommended dosages should range from 0.08 to 0.25% on the total weight of the formulation.

Our Laboratories are equipped to help you determine the best IPEL® BP-542 S dosage level according to your specific needs.

IPEL® BP-542 S

Registration / Approval / Recommendation

Up-to-date information on the registration status, approvals and recommendations of our products can be obtained from our Regulatory Affairs Department.

Precautions

IPEL® BP-542 S is a liquid classified as corrosive and flammable. Contact with the skin should be avoided and care should be taken so that the liquid does not splash. The precautions normally recommended for handling chemicals, such as the use of safety glasses, suitable protective clothing, protective gloves and impervious boots, should be observed. If the product comes in contact with the skin, the affected area should be washed with plenty of soap and water; splashes in the eyes should be rinsed immediately with plenty of water. If irritation persists, seek medical attention. Contaminated clothing should be changed immediately.

Eating, drinking and smoking should be prohibited during work. Do not inhale product fumes or vapors. Wash skin thoroughly after handling the product.

The current safety data sheet should be observed. This contains further information on labelling, transport and storage as well as information on handling, product safety, toxicity and ecology.

Use biocides safely. Always read the label and product information before use.

Labelling

This product information must be used with currently valid safety data sheet for the product that indicates its labelling in accordance with applicable laws and regulations.

Our technical advice - whether verbal, in writing or by way of trials - is based on the unverified information provided by you to us and given in good faith but without warranty or guarantee, express or implied, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information provided by us - especially that contained in our safety data and technical information sheets - and to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you and / or your customers on the basis of our technical advice are beyond our control and, therefore, entirely your own and / or your customer's responsibility. In addition, our General Conditions of Sale and Delivery apply.

IPEL - Itibanyl Produtos Especiais Ltda.
A Company of the LANXESS Group
Rod. Edgard Máximo Zambotto
Km 72,5
13240-000 Jarinu SP
Mail Box 049
Brazil
www.protectedbylanxess.com

©2022 LANXESS. IPEL, LANXESS and the LANXESS Logo are trademarks of LANXESS Deutschland GmbH or its affiliates. All trademarks are registered in many countries in the world.

BT 535/22
Rev: 00 05/19/2022