



Kalama® and Purox® Benzoates for Paints & Coatings

Emerald Kalama Chemical is the leading global producer of benzoic acid, manufactured using the highest industry standards at Emerald's operations in the U.S. and Europe. Emerald's high quality, non-chlorinated Purox® B benzoic acid is also used to produce Kalama® Benzyl Alcohol and Purox® and Kalama® Sodium Benzoates.

We have been a trusted supplier to the coatings industry for many years, providing a wide range of high performance, low-VOC additives, extensive formulation expertise, and global service from our world-scale, backward integrated operations.

In addition to benzoate intermediates, Emerald also provides K-FLEX® dibenzoate coalescents and modifiers for enhanced performance and value in a wide range of paint and coating applications.

Purox® B Benzoic Acid

Building Block and Chain Terminator in Alkyd Synthesis

Benzoic acid is a key raw material used in the production of alkyd resins to **control viscosity and enhance desirable characteristics** in the final alkyd coating film, including gloss, adhesion, hardness, and chemical resistance, particularly resistance to alkaline substances.

Emerald consistently manufactures the highest purity of benzoic acid. The high quality of Purox B Flakes offers **improved chemical characteristics, low odor and color, and high efficiency** in our customers' processes. Purox B is easy to use and incorporate, with **low agglomeration tendency**. It dissolves very well in solvents such as xylene.

Kalama® Benzyl Alcohol

Chlorine-Free Solvent in Epoxy Resins and Paint Strippers

Benzyl alcohol is a solvent, co-solvent, or non-reactive diluent used in coatings formulations to **reduce viscosity, ensure processability at lower temperatures, and increase film flexibility**. It is used widely in epoxy resins for coatings and also has the potential to compatibilize aminic hardeners with the epoxy. Emerald produces Kalama Benzyl Alcohol using an innovative purification process, resulting in a **chlorine-free product** to avoid corrosion or skin sensitization.

Benzyl Alcohol is also a more **environmentally friendly alternative to methyl chloride** or N-methyl-2-pyrrolidone (NMP) for paint strippers. Methyl chloride is under increasing regulatory pressure due to its effects on human health, which include potentially fatal carcinogenicity, neurotoxicity, and liver effects. NMP is an alternative to methyl chloride but is also under regulatory pressure due to its link with reproductive health risk.

Purox® S and Kalama® Sodium Benzoates

Efficient, Widely Used Corrosion Inhibitors

Sodium benzoate effectively **inhibits corrosion in waterborne systems at low concentrations** for steel, zinc, copper, copper alloys, soldered joints, aluminum, and aluminum alloy. It is most effective in formulations with a pH range of 6 - 12. Sodium benzoate may also reduce fouling by reducing the tendency of rust and scale to dislodge from corroded surfaces and does not cause foaming in these applications. It presents no toxicity problems when used as a corrosion inhibitor, which could be an asset in sensitive applications

Purox® B Benzoic Acid Flakes

Form	White flakes
Odor and Color	Virtually odorless and colorless at typical use levels
Non-Chlorinated	Yes
Assay	99.9% minimum

Kalama® Benzyl Alcohol NF/FCC

Form	Liquid
Odor and Color	Virtually odorless and colorless at typical use levels
Non-Chlorinated	Yes
Assay	99.9% minimum

Purox® S Sodium Benzoate

Form	White grains
Odor and Color	Virtually odorless and colorless at typical use levels
Non-Chlorinated	Yes
Assay	99.9% minimum

Kalama® Sodium Benzoate NF/FCC

Form	Dense granules, powder, or EDF™ (extruded dust-free)
Odor and Color	Virtually odorless and colorless at typical use levels
Non-Chlorinated	Yes
Assay	99.0% minimum

Disclaimer The information contained herein is believed to be reliable, however is based upon laboratory work with small scale equipment and does not necessarily indicate end-product performance. Because of variations in methods, conditions and equipment used commercially in processing these materials, Emerald makes no representations, warranties or guarantees, express or implied, as to the suitability of the products for particular applications, including those disclosed, or the results to be obtained. Full-scale testing and end-product performance are the responsibility of the user. Emerald Performance Materials shall not be liable for and the customer assumes all risk and liability for use and handling of any materials beyond Emerald's direct control. Nothing contained herein is to be considered as permission, recommendation nor as inducement to practice any patented invention without permission of the patent owner.

Contact Us

Customer Service – Americas

Emerald Kalama Chemical, LLC
Vancouver, Washington, USA

800.223.0035 | +1.360.673.2550
kalama@emeraldmaterials.com

Customer Service – EMEA

Emerald Kalama Chemical, BV
Geleen, The Netherlands

+31.46.702.2911
purox.info@emeraldmaterials.com

Customer Service – Asia Pacific

Emerald Performance Hong Kong
Wanchai, Hong Kong

+852.2598.7990
kflex.asia@emeraldmaterials.com