

# Kalama® and Purox® Benzoates for Paints & Coatings

### Purox® B Benzoic Acid

- Building block and chain terminator in alkyd synthesis
- Inhibitor for corrosion and flash rust

# Purox<sup>®</sup> S Sodium Benzoate Kalama<sup>®</sup> Sodium Benzoate

Inhibitors for corrosion and flash rust

### Kalama® Benzyl Alcohol

Solvent in epoxy resins and paint strippers

# Kalama® Benzaldehyde

- Non-reactive diluent for high gloss
- Building block for benzyl amine, benzoin



# **Purox® B Benzoic Acid**

Benzoic acid is a key raw material 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. It is also used as an additive for effective corrosion inhibition.

The high quality of Purox B Flakes offers **improved chemical characteristics**, **low odor and color**, **and high efficiency**. It is easy to use and incorporate, with **low agglomeration tendency**. It dissolves very well in solvents such as xylene.

### Purox® S and Kalama® Sodium Benzoates

Sodium benzoate effectively **inhibits corrosion and flash rust in waterborne systems at low concentrations**. It 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.

# **Kalama® Benzyl Alcohol**

Benzyl alcohol is a solvent, co-solvent, or non-reactive diluent used in coatings to reduce viscosity, ensure processability at lower temperatures, and increase film flexibility. It is widely used in epoxy resins for coatings and also has the potential to compatibilize aminic hardeners with the epoxy.

■ Sodium benzoate and benzoic acid sufficiently inhibit flash rust at 0.1% of the total formula.

40 PVC acrylic, direct-to-metal primer on steel substrate Purox S dissolved in water used for letdown Purox B added as a 12% solution in 10% NH<sub>4</sub>OH



### **Orders and Inquiries:**

Product	Form	Odor & Color	Assay
Purox <sup>®</sup> B Benzoic Acid	White flakes	Virtually odorless and colorless at typical use levels	99.9% minimum
Purox® S Sodium Benzoate	White grains	Virtually odorless and colorless at typical use levels	99.9% minimum
Kalama® Sodium Benzoate	Dense granules, powder, or extruded dust free	Virtually odorless and colorless at typical use levels	99.0% minimum
Kalama® Benzyl Alcohol	Liquid	Virtually colorless, faintly aromatic	99.9% minimum
Kalama® Benzaldehyde	Liquid	Virtually colorless, characteristic odor (almond-like)	99.5% minimum

**Emerald Kalama Chemical** is the leading global producer of benzoic acid, using the highest industry standards at Emerald's operations in the U.S. and Europe. 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.

Emerald also provides Kalama® VITROFLEX® and K-FLEX® plasticizers and coalescents for a wide range of coatings, adhesives, and sealants and MODULAST® urethane-grade modifiers.

**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 | +1.360.954.7100 kalama@emeraldmaterials.com

#### **Customer Service – EMEA**

Emerald Kalama Chemical, BV
Rotterdam, The Netherlands
+31 88.888.0500
purox.info@emeraldmaterials.com

### **Customer Service – Asia Pacific**

Emerald Performance Hong Kong Wanchai, Hong Kong

+852.2598.7990 kflex.asia@emeraldmaterials.com





