



**CHURCH & DWIGHT CO., INC.**

469 North Harrison Street  
Princeton, NJ 08543-5297

800.833.0544  
[www.ahperformance.com](http://www.ahperformance.com)

To Whom It May Concern:

**Re: Church & Dwight Co., Inc. Arm & Hammer™ Flow K™ Potassium Bicarbonate  
FDA Registration, Good Manufacturing Practices (GMP), Generally Recognized as Safe (GRAS) Status, Quality System  
Certification**

Church & Dwight Co., Inc. manufactures Arm & Hammer™ Flow K™ Potassium Bicarbonate at the Church & Dwight Old Fort Ohio facility. The Old Fort plant is registered with the US Food and Drug Administration as a food manufacturer as is required by the Bioterrorism Act and the Food Safety Modernization Act. The Old Fort plant conforms to current Good Manufacturing Practices.

In addition, Church & Dwight Old Fort is certified to comply with ISO 9001:2008 requirements (Cert. FM28259, BSI Management Systems). The Old Fort plant is also certified to comply with BRC Issue 6 (Cert. C2013-02017 Perry Johnson Registrars Food Safety, Inc.)

Flow K™ packaging materials to the FDA requirements under Title 21 of the Code of Federal Regulations regarding food contact.

Potassium Bicarbonate is affirmed as a Generally Recognized as Safe Direct Food Substance with no limitation other than current good manufacturing practice (21 CFR 184.1613).

Magnesium Oxide, the flow aid included in Flow K™ Potassium Bicarbonate is also an FDA GRAS material referenced in 21 CFR 184.1431.

Church & Dwight Co., Inc. Old Fort manufacturing plant has a Product Protection Plan (HACCP) that employs a sifter and a magnet in the process.

If you have any questions or comments, please feel free to contact me.

Regards,

Robert G. Berube  
Manager, Technical Service  
609 806 1965  
[robert.berube@churchdwight.com](mailto:robert.berube@churchdwight.com)

Reviewed: January 19, 2015

**TRUSTED BRAND.  
PROVEN PERFORMANCE.**

Performance Products Group



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To Whom It May Concern:

**Re: Church & Dwight Co., Inc. Arm & Hammer™ Flow K™ Potassium Bicarbonate Natural Status**

While there is no official or generally accepted definition of “natural” ingredients, we offer the following information so that users of Church & Dwight Co., Inc. Flow K™ Potassium Bicarbonate can evaluate and make their own decisions.

The production of potassium bicarbonate begins with naturally occurring potassium chloride, and requires no more than minimal processing. Potassium chloride is electrolyzed to form potassium hydroxide. Carbon dioxide is bubbled through the potassium hydroxide to form potassium carbonate and then potassium bicarbonate.

Once potassium bicarbonate is formed, centrifuging and drying separate the process water from the product. Reclaimed solution is returned to the process thereby avoiding waste. The potassium bicarbonate, which now meets USP standard, is blended with a small amount of Magnesium Oxide USP to insure free flow. Flow K™ Potassium Bicarbonate does not contain any artificial flavor or flavoring, coloring ingredient, or chemical preservative (as defined in 21 CFR 101.22), or any other artificial or synthetic ingredient. Throughout the process, we adhere to the principles of environmental stewardship as evidenced by our Responsible Care® certification.

No sewage sludge, genetically modified organisms, plant or animal products, or irradiation are used in the manufacture of Flow K™ Potassium Bicarbonate.

Please feel free to contact me with any questions.

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To Whom It May Concern:

**Re: Church & Dwight Co., Inc. Arm & Hammer™ Flow K™ Potassium Bicarbonate Residual Solvents Declaration**

No Class 1, Class 2 Class 3 or other solvents are used in the manufacturing process for Flow K™ Potassium Bicarbonate. Further, based on our knowledge of the manufacturing process and procedures, and controlled handling and storage of the potassium bicarbonate, there is no potential for residual solvents to be present if tested.

If you have any questions or comments, please feel free to contact me.

Regards,

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Manager, Technical Service  
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To Whom It May Concern:

**Re: Church & Dwight Co., Inc. Arm & Hammer™ Flow K™ Potassium Bicarbonate  
Storage and Handling Recommendations**

Store in cool, dry areas and away from incompatible substances such as strong acids and bases. Flow-K™ Potassium Bicarbonate reacts with acids to yield carbon dioxide gas, which can accumulate in confined spaces. Flow-K™ Potassium Bicarbonate decomposes at elevated temperatures (above 100°C.) to produce Potassium Carbonate ( $K_2CO_3$ ), Carbon Dioxide ( $CO_2$ ), and Water ( $H_2O$ ).

Flow-K™ Potassium Bicarbonate may be stacked on pallets or racks. It is recommended that pallet stacks not exceed three high to prevent compaction. Shipments of pallets should be single stacked and the condition of the shipping vehicle should be checked for cleanliness and odor. If a bag is torn during warehouse handling or during loading on/off a vehicle, the bag should be removed from the unit and destroyed.

If you have any questions or comments, please feel free to contact me.

Regards,

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Reviewed: January 19, 2015

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469 North Harrison Street  
Princeton, NJ 08543-5297

800.221.0453  
[www.ahperformance.com](http://www.ahperformance.com)

April 4, 2016

To Whom It May Concern:

**Re: Irradiation Statement**

The Church & Dwight Co., Inc. Arm & Hammer™ Brand products listed below do not undergo irradiation processes at any time during their manufacture and packaging.

Sodium Bicarbonate USP – all grades  
Sodium Bicarbonate Grade 1 TFF  
Tortilla Blend™ Sodium Bicarbonate  
Flow K™ Potassium Bicarbonate  
Ammonium Bicarbonate  
Ammonium Bicarbonate Treated

Please feel free to contact me with any questions.

Regards,

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January 5, 2018

To Whom It May Concern:

**Re: HACCP**

Please be advised that HACCP Plans have been developed and implemented at the Church & Dwight Co. Inc. sodium bicarbonate manufacturing facilities located in Old Fort, Ohio and Green River, Wyoming.

The sole CCP at both plants is metal detection with limits set for ferrous, nonferrous and stainless steel at 2.5mm or less. Monitoring is constant and when levels are exceeded management / quality are notified. Verification takes place at the beginning of each shift. All data is recorded.

Feel free to contact me with any questions.

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