



CHURCH & DWIGHT CO., INC.

500 Charles Ewing Boulevard
Ewing, New Jersey 08628

(800) 221-0453
www.ahperformance.com

February 1, 2023

To Whom It May Concern:

Re: RoHS 2 2011/65/EU compliance

None of the restricted materials found in Annex 2 of RoHS2 2011/65/EU are known or expected impurities in Church & Dwight Arm & Hammer™ Sodium Bicarbonate.

Lead (0.1 %)

Polybrominated diphenyl ethers (PBDE) (0.1 %)

Mercury (0.1 %)

Bis(2-ethylhexyl) phthalate (DEHP) (0.1%)

Cadmium (0.01 %)

Butyl Benzyl phthalate (BBP) (0.1%)

Hexavalent chromium (0.1 %)

Dibutyl phthalate (DBP) (0.1%)

Polybrominated biphenyls (PBB) (0.1 %)

Diisobutyl phthalate (DIBP) (0.1%)

Feel free to contact me with any questions.

Regards,

Robert G. Berube
Manager, Technical Service
609 806 1965

robert.berube@churchdwright.com



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February 1, 2023

Re: Animal Testing of Church & Dwight Co., Inc. Bicarbonate Products

Please be advised that Church & Dwight Co., Inc. has not conducted animal testing since at least 2001 on our Sodium Bicarbonate, Potassium Bicarbonate or Ammonium Bicarbonate materials (all grades).

Church & Dwight's corporate policy on animal testing can be found here:

<https://churchdwight.com/our-brands/animal-testing-policy.aspx>

Feel free to contact me with any questions.

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To Whom It May Concern:

Re: Conflict Minerals

Church & Dwight Co. Inc. is pleased to advise that its Arm & Hammer™ Sodium Bicarbonate, Flow K™ Potassium Bicarbonate and Ammonium Bicarbonate are not manufactured using any of the so-called Conflict Minerals:

- columbite/tantalite, also known as coltan (tantalum, niobium)
- cassiterite (tin)
- wolframite (tungsten)
- gold
- or the derivatives of each of these minerals.

Feel free to contact me with any questions.

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To Whom It May Concern:

Re: Church & Dwight Co., Inc. Sodium Bicarbonate USP FCC, and Food Grade Blends Gluten Content

Church & Dwight Co., Inc. is pleased to advise that all grades of Sodium Bicarbonate USP and Sodium Bicarbonate blends it produces at the Old Fort and Green River facilities are completely inorganic.

Gluten is not used in the manufacture of sodium bicarbonate or its blends.

The dedicated equipment used in manufacturing, storage and packing is closed and no opportunity exists for cross-contamination with plant or animal products.

Regards,

Robert G. Berube
Manager, Technical Service
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February 1, 2023

To Whom It May Concern:

Re: Arm & Hammer™ Sodium Bicarbonate USP – Ready-to-eat status

As no further treatment of sodium bicarbonate is required before use as a food ingredient, it is considered to be ready-to-eat.

Regards,

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Manager, Technical Service
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To Whom It May Concern:

Re: Church & Dwight Co., Inc. Arm & Hammer™ Sodium Bicarbonate and Sodium Bicarbonate Blends Genetically Modified Organism (GMO) / Bioengineered Statement

Church & Dwight Co., Inc. is pleased to advise that the Sodium Bicarbonate and Sodium Bicarbonate blends that it manufactures are made solely from inorganic materials, are free from Genetically Modified Organisms (GMO) and are not derived from Bioengineered Foods.

No material of animal or plant origin is used in their manufacture or allowed to contact them during handling.

The products covered by this statement:

Sodium Bicarbonate USP No. 1 Powdered	Sodium Bicarbonate USP No. 5 Coarse Granular
Sodium Bicarbonate USP No. 2 Fine Granular	Sodium Bicarbonate Treated No. 1 Powdered with Tricalcium Phosphate Added (Grade 1 TFF)
Sodium Bicarbonate USP No. 3 Fine Powdered	Tortilla Blend™ Sodium Bicarbonate
Sodium Bicarbonate USP No. 3DF Fine Powdered	Alkalinity First™ Sodium Bicarbonate
Sodium Bicarbonate USP No. 4 Granular	Armagrip™

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

Regards,

Robert G. Berube
Manager, Technical Service
609 806 1965
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Reviewed: February 1, 2023



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To Whom It May Concern:

Re: Church & Dwight Co., Inc. Arm & Hammer™ Bicarbonate Products Lot Codes

Lot codes for Church & Dwight **Sodium and Potassium Bicarbonate** products adhere to the following format:

XXYDDD

Where:

XX is a two letter designation for the manufacturing location.

Y is the last digit of the year of manufacture.

DDD is the Julian day of manufacture.

Trailing digits may indicate shift, etc.

Plant Designation	Plant	Products Produced
FF	Old Fort, OH	Sodium Bicarbonate, USP Grades Sodium Bicarbonate Treated No. 1 Tortilla Blend Sodium Bicarbonate Alkalinity First Sodium Bicarbonate Sodium Bicarbonate Industrial Grade Pool Pack Sodium Bicarbonate Flow K™ Potassium Bicarbonate
WW	Green River, WY	Sodium Bicarbonate, USP Grades Sodium Bicarbonate Treated No. 1 Alkalinity First Sodium Bicarbonate Sodium Bicarbonate Industrial Grade
PS		Micronized Sodium Bicarbonate
BK		Compacted Sodium Bicarbonate

Arm & Hammer **Ammonium Bicarbonate**, produced in Germany, uses a unique and traceable 10 character lot code.

Regards,

Robert G. Berube
September 20, 2023



CHURCH & DWIGHT CO., INC.

500 Charles Ewing Boulevard
Ewing, New Jersey 08628

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To Whom It May Concern:

Re: Church & Dwight Co., Inc. Arm & Hammer™ Sodium Bicarbonate and Sodium Bicarbonate Blends Generally Recognized as Safe (GRAS) Status

Sodium Bicarbonate is affirmed as a Generally Recognized as Safe Direct Food Substance with no limitation other than current good manufacturing practice (21 CFR 184.1736).

Calcium Phosphate, the flow aid included in Sodium Bicarbonate Treated No. 1 Powdered (Grade 1 TFF) is an FDA GRAS material referenced in 21 CFR 182.1217.

Silicon Dioxide, blended in Tortilla Blend™ Sodium Bicarbonate is an FDA GRAS material as referenced in 21 CFR 172.480.

Please feel free to contact me with any questions or comments.

Regards,

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Reviewed: February 1, 2023



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To Whom It May Concern:

Re: Church & Dwight Co., Inc. Arm & Hammer™ Sodium Bicarbonate and Sodium Bicarbonate Blends Materials associated with Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE)

Church & Dwight Co., Inc. Arm & Hammer brand Sodium Bicarbonate and Sodium Bicarbonate blends (as listed below) do not contain, do not come into contact with, nor are they manufactured using any animal fats or byproducts including bovine, ovine, or caprine tissues, their derived ingredients, or human blood products.

The closed, dedicated system used to manufacture and package these products does not allow for cross-contamination with the materials in question.

Specific products covered:

Sodium Bicarbonate USP No. 1 Powdered
Sodium Bicarbonate USP No. 2 Fine Granular
Sodium Bicarbonate USP No. 3 Fine Powdered
Sodium Bicarbonate USP No. 3DF Fine Powdered
Sodium Bicarbonate USP No. 4 Granular
Sodium Bicarbonate USP No. 5 Coarse Granular
Sodium Bicarbonate Treated No. 1 Powdered with Tricalcium Phosphate Added (Grade 1 TFF)
Tortilla Blend™ Sodium Bicarbonate
Alkalinity First™ Sodium Bicarbonate
Armagrip™

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

Regards,

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Reviewed: February 1, 2023



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THE BICARBONATE EXPERTS™

Performance Products
www.ahperformance.com



CHURCH & DWIGHT CO., INC.

2501 E. CR 34 - P.O. BOX 122 OLD FORT, OH. 44861 USA Customer Service Number: (800) 631-5591

CERTIFICATE OF ANALYSIS

Customer: [REDACTED]	Lot Number: FF4012
Street: [REDACTED]	Date of Manufacture: 01/12/2024
City/State/Country/Zip: [REDACTED]	Product: SBC Tortilla Blend
	SAP number: 42000021

Shipping Information:

Order Number: [REDACTED]	P.O. Number: [REDACTED]	Packaging: Bag	Quantity: 825
Trailer Number:	Release Number:		

Analysis:

Description	Specification	Result
% Flow Aid	0.15% to 0.55%	0.403 %
% Sodium Bicarbonate Assay	98.45% to 100.35%	99.60 %
SBC Chloride	NMT 0.015%	Pass
Arsenic (As)*	NMT 0.9 PPM	< 0.1 PPM
Cadmium (Cd)*	NMT 0.3 PPM	< 0.02 PPM
Lead (Pb)*	NMT 0.3 PPM	< 0.1 PPM
Mercury (Hg)*	NMT 1 PPM	< 0.04 PPM
Identification - Bicarbonate	Effervesces in acid, gas precipitates in Ca(OH) ₂ TS. Cold solution unchanged/slight colored	Pass
Identification - Sodium	No Precipitate with K ₂ CO ₃ . Dense precipitate with H ₂ K ₂ O ₇ Sb ₂	Pass
Ammonia	NMT 20 PPM	Pass (see remarks)
Limit of Sulfur Compounds	NMT 0.015%	Pass
% Loss on Drying	NMT 0.25%	0.01 %
% Loss on Drying	NMT 0.25%	< 0.01 %
Normal Carbonate	Solution does not assume more than a faint pink color immediately	Pass

Other Testing:

Description	Specification/Limits	Result
pH - 1% Solution	8.0 to 8.6	8.1
Cumulative % Retained on 100 Mesh Screen	NMT 2%	0
Cumulative % Retained on 140 Mesh Screen	30% to 45%	35
Cumulative % Retained on 230 Mesh Screen	65% to 85%	72

Remarks:

Meets specification of the current USP/FCC except Insoluble Substances. Stability from date of manufacture: 3 years minimum. This product does not require Residual Solvents testing, under the USP-NF<467> stipulation that based on the manufacturer's knowledge of the manufacturing process and controlled handling & storage of the product there is no potential for the specific toxic solvents to be present. Ammonia is not used in the manufacturing process for Church & Dwight sodium bicarbonate. Controlled handling & storage of the product ensure that ammonia will not exceed the USP limit. Elemental Impurities limits from USP <232>, Table 3, Oral Drug Products. *Determined by ICP, C&D Method TM *74505 for Elemental Impurities. †Determined by C&D Method TM *9428. Ammonia is not used in the manufacturing process for Church & Dwight Sodium Bicarbonate. Limit of Ammonia is based on risk analysis and in-process controls.

Comments:

96110999

Date: 04/02/2024 Data Reviewed By: Christina Mooney
 Q.C. Supervisor or Designate