

Kalama[®] Sodium Benzoate NF/FCC

CAS REGISTRATION NUMBER: 532-32-1

EINECS REGISTRATION NUMBER: 208-534-8

Sales Specifications – National Formulary / Food Chemicals Codex Grade

Parameter:	Specification Value:
Identification (NF/FCC)	Passes NF & FCC Tests (Tests A, B, and C)
Assay (NF/FCC)	99.0% - 101.0% of C ₇ H ₅ NaO ₂ , calculated on the anhydrous basis
Alkalinity (NF/FCC)	Not more than 0.04%, as NaOH
Heavy metals (NF)	Not more than 10 mg / kg (as Pb)
Arsenic	Not more than 3 mg / kg
Lead (FCC)	Not more than 2 mg / kg
Water (NF/FCC)	Not more than 1.5% (wt)
Residual solvents	Passes NF Limit Tests

Sales Specifications – European Pharmacopeia Grade

Parameter:	Specification Value:
Identification	Responds to EP tests for Sodium and Benzoate
Assay (by EP Method)	NLT 99.0 and NMT 100.5% of C ₇ H ₅ NaO ₂ , calculated with reference to the dried substance
Alkalinity	Not more than 0.2 mL of 0.1 M HCl per 20 mL of a 5% (w/v) solution. (0.08% as NaOH)
Acidity	Not more than 0.2 mL of 0.1 M NaOH per 20 mL of a 5% (w/v) solution. (0.244% as Benzoic)
Clarity of solution	10% (w/v) solution is clear
Colour of solution	Not more intensely coloured than reference solution.
Heavy metals (as Pb)	Not more than 10 mg / kg.
Halogenated compounds	
- Ionised chlorine	Passes EP Test (limit is 200 ppm)
- Total chlorine	Passes EP Test (limit is 300 ppm)
Loss on drying	When dried to a constant weight @ 100 to 105° C, not more than 2.0% of its weight is lost.
Residual solvents	Passes Limit Tests

Sales Specifications – EEC E-211 Grade

Parameter:	Specification Value:
Identification	Passes Tests
Assay	Not less than 99% on the anhydrous basis
Loss on drying	Not more than 1.5% @105° C
Alkalinity	Not more than 0.25 mL of 0.1 N HCl per 1 g of sample
Acidity	Not more than 0.25 mL of 0.1 N NaOH per 1 g of sample
Chlorinated organic compounds	Not more than 0.06% (as chlorine)
Readily oxidizable substances	Passes Limit Test
Polycyclic acids	Passes Test
ARSENIC	Not more than 3 mg/kg
LEAD	Not more than 2 mg/kg
MERCURY	Not more than 1 mg/kg

Typical Particle Size Distribution:	
Granulation	Typical Values
Powder	20 to 50% through an 80 mesh screen
Dense	3 to 6% through an 80 mesh screen
EDF	~1% through a 60 mesh screen

Available Standard Package Sizes:	
Granulation	Package Description
Powder	25 kg poly bag, 40 bags per pallet
Dense	25 kg poly bag, 40 bags per pallet
	500 kg FIBC
	700 kg FIBC
	1000 kg FIBC
EDF	25 kg poly-lined paper bag, 40 bags per pallet
	500 kg FIBC
All of the above package offerings are placed upon a non-returnable (4-way entry type) pallet. The bag(s) and the pallet are stretch wrapped with poly ethylene film.	

The information contained herein is believed to be reliable; however it 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, Lanxess 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. Lanxess Corporation shall not be liable for and the customer assumes all risk and liability for use and handling of any materials beyond Lanxess'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.

LANXESS CORPORATION

1296 Third Street N.W. / Kalama, WA 98625 USA

File: 75705045
 Rev 20
 September 2023

Kalama® Sodium Benzoate NF/FCC – Powder
[Material (UVP) #62609824, formerly SBPOWDER]
(Material manufactured in Kalama, WA USA)

February 6, 2024

Manufacturing & Origin Statement

Please note that this statement is only valid for the above-referenced product as it leaves our legal possession. We cannot be responsible for potential modifications/contaminations to the material from downstream handling. Any customers purchasing our material indirectly must obtain documentation from their distribution partner.

LANXESS Corporation
Hannah Corcoran
Regulatory Affairs Analyst
BU – Flavors & Fragrances
1499 SE Tech Center Place,
Suite 300
Vancouver, WA 98683 USA

FF.Regulatory@lanxess.com
www.lanxess.com

We receive numerous requests regarding the manufacture and origin of our products, as well as the potential presence of biological material in our products (i.e., infectious agents, palm oil/derivatives, animal/plant materials). While we do not manufacture finished consumer products, we are a supplier of bulk raw materials that go into finished consumer products, so we are providing the following information to assist downstream users in the assessment of their products.

Page 1 of 2

The above-referenced product is manufactured via a synthetic pathway by:

LANXESS Corporation
1296 NW 3rd St
Kalama, WA 98625 USA

Animal Substances

This product does not contain intentionally added components of an animal-derived nature. “Animal-derived” covers the use of any animal product, byproduct, or derivative. We understand that the word “animal” refers to the entire Animal Kingdom; that is all vertebrates and all multi-cellular invertebrates.

Plant Substances

This product does not contain intentionally added components of a vegetal nature. We understand that “vegetal” includes palm oil and palm kernel oil, as well as any components derived from palm oil or palm kernel oil.

Genetically Modified Organisms (GMOs)

This product is not expected to contain GMOs. None of our raw materials were manufactured from or processed with or by means of GMOs. None of our products are processed with or treated with or by means of GMOs.

While we do not actively monitor for animal/vegetal materials and GMOs, based on our knowledge of the manufacturing process and our raw materials, none are expected to be present in this product. Additionally, we can offer comments on the following related topic(s):

Bioengineered (BE) foods

None of our raw materials were manufactured from or processed with or by means of BE foods. None of our products are processed with or treated with or by means of BE foods. Furthermore, our products are not finished consumer goods, so regulations such as the National Bioengineered Food Disclosure Standard (NBFDS) [7 CFR 66] are not applicable.

Vegetarian-Vegan

While we do not market with vegetarian or vegan suitability, based on knowledge of our raw materials and manufacturing processes, we expect to meet these requirements.

If you have additional questions, please contact us via your sales representative. If you do not purchase material from us directly, please contact your distributor with any questions.

Disclaimer: This information and our technical advice – whether verbal, in writing, or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use, and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

October 12, 2023

1296 NW Third Street
Kalama, WA 98625 USA
Phone 360-673-2550
Fax 360-673-3564

www.lanxess.com

Emerald Kalama Chemical, LLC Name Change

The Kalama, WA manufacturing site, formerly known as Emerald Kalama Chemical, LLC has been renamed to Lanxess Corporation.

Effective October 1, 2023, all documents such as invoices, B/L, shipping paperwork, COA, labels, etc. from the Kalama, WA manufacturing site will reflect the Lanxess Corporation naming convention and logos.

Products manufactured before this date (October 1, 2023) will still have Emerald Kalama Chemical, LLC labeling.

The site name change is as follows:

Site Name:	Name as of October 1, 2023:
Emerald Kalama Chemical, LLC 1296 NW Third Street Kalama, WA 98625	Lanxess Corporation 1296 NW Third Street Kalama, WA 98625

The name change does not affect the manufacturing of the products made at the Kalama, WA manufacturing site. There are no significant changes to the raw materials, product specifications, formulations, process flows, etc. as a result of this name change.

The manufacturing facility address has not changed.

Yours sincerely,



Britni Slunaker
QA Coordinator
Lanxess Corporation



Sierra Santiago
Tilley Distribution
www.tilleydistribution.com

Kalama® Sodium Benzoate NF/FCC
(Dense, Powder, and EDF)

Subject: Nutritional Information

Dear LANXESS Customer,

When used at typical concentrations (ppm level or similar), the above-stated product is not expected to practically contribute to the overall caloric value of the finished food product. However, since the above-stated product is a salt, depending on the finished food product, the salt ions may be relevant to the finished food product's nutritional profile. Thus, please see the following table for the relevant nutritional information:

	Max	Avg
Water (%)	1.5	0.5
Potassium (mg*)	100	5-50
Sodium (mg*)	16000	16000
*per 100 g of product		

Thank you for your interest in the safe use and handling of this LANXESS product. If we may be of any additional assistance, please do not hesitate to contact us.

Best,



Robert Campbell
Regulatory Affairs Specialist

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Statements regarding consistency are valid. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

January 26, 2024

LANXESS Corporation

Robert Campbell
Product Safety & Regulatory Affairs
LANXESS Corporation
111 RIDC Park West Drive
Pittsburgh, PA 15275 - 1112
Phone: (360) 954-7058
Robert.Campbell@lanxess.com
www.us.lanxess.com

**Kalama® Sodium Benzoate NF/FCC – Dense [SBDENSE]
Kalama® Sodium Benzoate NF/FCC – EDF [SBEDF]
Kalama® Sodium Benzoate NF/FCC – Powder [SBPOWDER]**
(Material(s) manufactured in Kalama, WA USA)

California Proposition 65 Statement

Please note that this statement is only valid for the above-referenced product(s) as it leaves our legal possession. We cannot be responsible for potential modifications/contaminations to the material(s) from downstream handling. Any customers purchasing our material(s) indirectly must obtain documentation from their distribution partner.

Regarding the above-referenced product(s), no substances listed in the State of California's list of Chemicals known to the State to cause cancer or reproductive toxicity ("California Proposition 65 List") are intentional components [most current California Prop 65 List dated **11 August 2023**]. While we do not actively monitor for all of these substances, based on the knowledge of our manufacturing process, we do not expect them to be present at levels at or above reportable amounts for occupational exposure per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

If you have additional questions, please contact us via your sales representative.
If you do not purchase material from us directly, please contact your distributor with any questions.

August 14, 2023

LANXESS Corporation
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Page 1 of 1

Disclaimer: This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies, where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

Kalama® Sodium Benzoate NF/FCC – Dense [SBDENSE]
Kalama® Sodium Benzoate NF/FCC – EDF [SBEDF]
Kalama® Sodium Benzoate NF/FCC – Powder [SBPOWDER]
(Material manufactured in Kalama, WA USA)

March 7, 2023

LANXESS Corporation
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Suite 300
Vancouver, WA 98683 USA

FF.Regulatory@lanxess.com
www.lanxess.com

Statement on Synthetic Manufacturing/Origin, GMOs & BE Foods

Please note that this statement is only valid for the above-referenced product as it leaves our legal possession. We cannot be responsible for potential modifications/contaminations to the material from downstream handling. Any customers purchasing our material indirectly must obtain documentation from their distribution partner.

Page 1 of 1

We receive numerous requests regarding the potential presence of Bioengineered (BE) foods or Genetically Modified Organisms (GMOs). This includes, but is not limited to, the following regulation(s):

National Bioengineered Food Disclosure Standard (NBFDS), [7 CFR 66]

We do not manufacture finished consumer products, but as a supplier of bulk raw materials that go into finished consumer products, we are providing the following information to assist downstream users in the assessment of their products.

The above-referenced products are manufactured via a synthetic pathway. The raw materials, additives and catalysts used in the production process are all synthetic or mineral materials.

We do not actively monitor for Genetically Modified Organisms (GMOs). However, based on our knowledge of the manufacturing process and our raw materials, none are expected to be present. As no biological materials are in our starting materials and/or the above-mentioned products, a statement on Bioengineered foods is not relevant.

None of the products we manufacture are expected to contain genetically modified organisms (GMOs). Because our products are not finished consumer foods, statements regarding bioengineered (BE) foods are not relevant. None of our raw materials were manufactured from or processed with or by means of GMOs or BE foods. None of our products are processed with or treated with or by means of GMOs or BE foods.

In other words, neither genetically modified organisms nor bioengineered foods play any part whatsoever in the manufacturing of this product. We do not intend to complete any downstream user questionnaires or forms on this matter, as they are irrelevant to this material based on its synthetic origin.

If you have additional questions, please contact us via your sales representative. If you do not purchase material from us directly, please contact your distributor with any questions.



武汉有机实业有限公司

WUHAN YOUJI INDUSTRIES CO., LTD.

(AN ISO-9001 CERTIFICATED COMPANY)

ADDRESS: No.1 2ND CHEMICAL ROAD,

WUHAN CHEMICAL INDUSTRY PARK, WUHAN 430082, CHINA

TEL: 0086 27 8341-2182

FAX: 0086 27 8384-4210/8383-2423

E-MAIL: organic@chinaorganic.com WEBSITE: www.chinaorganic.com

Allergen Statement

ITEM: SODIUM BENZOATE; BENZOIC ACID; POTASSIUM BENZOATE					
ALLERGEN LIST (NOTE: The corresponding derivatives and by-products are listed as examples, and are not intended to be all-inclusive. Please consider all other derivatives as well.)	Q#1: Does the above item contain any of the following allergens or their derivatives?		Q#2: Is the above item produced on equipment that comes in contact with any of the following allergens, or in a facility that uses or processes those allergens?		
	YES	NO	YES	NO	
* Milk (includes butter, casein, cheese, curds, whey, lactose, margarine, cream, custard, nougat, pudding, sodium caseinate, sour cream, yogurt)		X		X	
* Eggs (includes mayonnaise, meringue, ovalbumin)		X		X	
* Celery (Roots, leaves, stalk, not seed)		X		X	
* Soybeans (includes tofu, soya-derivatives)		X		X	
* Wheat (includes bran, cereal extracts, cracker meal, farina, graham flour, malt, wheat germ, wheat gluten, wheat starch, semolina)		X		X	
* Peanuts (includes peanut butter, peanut flour, protein)		X		X	
* Tree Nuts (includes almond, Brazil, cashew, hazelnut, macadamia, pecan, pine, pistachio, walnut)		X		X	
* Seafood (includes crustaceans & mollusks: shrimp, crab, clam, lobster, oyster, scallop, crayfish; fish protein: surimi, cod, pollock, whitefish, herring, sardines, trout, squid, octopus)		X		X	
* Seeds & products (includes cotton, poppy, sesame, sunflower...)		X		X	
* Beans & products (includes peas, lentils, beans [not green beans])		X		X	
* Sulfiting Agents		X		X	
Are any of the following present in the product?					
	YES	NO		YES	NO
Monosodium Glutamate		X	TBHQ		X
Hydrolyzed Proteins (Vegetable/Animal)		X	Tocopherols (Vitamin E)		X
Corn or Corn Derivatives		X	Gluten		X
Autolyzed Yeast/Yeast Extracts		X	Chocolate/Chocolate Derivatives		X
BHA		X	Beef Products & their derivatives		X
BHT		X	Pork Products & their derivatives		X
FD&C Yellow #5 or #6		X	Preservatives		X
Where allergens are present in the material, an explanation of how the allergen is labeled is provided in the space to the right.	NOT APPLICABLE				
For equipment that comes in contact with allergens or for allergens present in the same plant, the cross contamination prevention program is explained in the space to the right.	NOT APPLICABLE				

FEB 14,2022

WUHAN YOUJI INDUSTRIES CO.,LTD.

武汉有机实业有限公司
WUHAN YOUJI INDUSTRIES CO., LTD.



武汉有机实业有限公司

WUHAN YOUJI INDUSTRIES CO., LTD.

(AN ISO-9001 CERTIFICATED COMPANY)

ADDRESS: NO.1, 2ND CHEMICAL RD.,

WUHAN CHEMICAL INDUSTRY PARK, WUHAN 430082 CHINA

TEL: 0086 27 8342-9822/83840060

FAX: 0086 27 8384-4210/8383-2423

E-MAIL: organic@chinaorganic.com

WEBSITE: www.chinaorganic.com

FDA Registration Statement

November.09, 2022

To Whom It May Concern,

We, **Wuhan Youji Industries Co., Ltd.**, hereby certify that we have completed biennial registration renewal with U.S. Food and Drug Administration (FDA), pursuant to Section 305 of the United States Public Health Security and Bioterrorism Preparedness and Response Act of 2002.

Wuhan Youji Industries Co., Ltd.

No.1, 2nd Chemical Rd., Wuhan Chemical Industry Park, Wuhan City, Hubei, 430082, China

US FDA Registration Number: 11253716904

Registration Renewed Date: November.08, 2022

武汉有机实业有限公司
Wuhan Youji Industries Co., Ltd.
WUHAN YOUJI INDUSTRIES CO., LTD.



武汉有机实业有限公司

WUHAN YOUJI INDUSTRIES CO., LTD.

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E-MAIL: organic@chinaorganic.com

WEBSITE: www.chinaorganic.com

Organic Statement

JAN.14,2024

To whom it may concern:

We, **Wuhan YouJi Industries Co., Ltd.**, hereby certify that the following merchandise are manufactured by ourselves, addressed at Wuhan, Hubei province P.R. of China.

**PRODUCT: BENZOIC ACID
SODIUM BENZOATE**

These products we supplied, which raw materials are pure synthetic. Also, it is obtained through chemical synthetic process
It's not an organic product.

WuHan Youji Industries Co., Ltd.
武汉有机实业有限公司
WUHAN YOUJI INDUSTRIES CO., LTD.

Certificate CN16/10083

This is to certify that

Wuhan Youji Industries Co., Ltd.

SGS

No. 1, 2nd Chemical Road, Wuhan Chemical Industry Park, Wuhan City, Hubei Province, 430082, P. R. China

SITE CODE 8774942

has been assessed and certified as meeting the requirements of

Global Standard Food Safety

Issue 9: August 2022

Achieved Grade: B

Audit Programme: Announced

For the following activities:

Manufacturing of food additive benzoic acid by oxidation, distillation, melt crystallization and packed into paper bags or plastic bags;
Manufacturing of food additive potassium benzoate and sodium benzoate by oxidation, distillation, melt crystallization, neutralization, filtering, drying and packed into paper bags or plastic bags.

Exclusions from scope: None

Product Categories: 15

AUDITOR NUMBER: 25772

Date of Evaluation: 03 July 2023

Certificate Issue Date: 27 July 2023

Re-Evaluation Due Date 06 July 2024

Certificate Expiry Date: 17 August 2024

This certificate supersedes all other certificates bearing this certificate number with earlier certificate issue dates.

If you would like to give feedback on the BRCGS Standard or the audit process directly to BRCGS, please contact: enquiries@brcgs.com or use the BRCGS reporting system at <https://tellusbrcgs.whistleblownetwork.net>. To verify certificate validity, please visit <https://directory.brcgs.com>.



Jonathan U. Hall

Authorised by

Jonathan Hall

Global Head - Certification Services

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武汉有机实业有限公司

WUHAN YOUJI INDUSTRIES CO., LTD.

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WUHAN CHEMICAL INDUSTRY PARK, WUHAN 430082, CHINA

TEL: 0086 27 8384-0060

FAX: 0086 27 8384-4210/8383-2423

E-MAIL: organic@chinaorganic.com

WEBSITE: www.chinaorganic.com

HACCP PLAN

CPP	Hazard Description	Critical limit	Monitoring				Correct action	Record	Verification
			Content	Method	Control frequency	Control by			
CCP1 metal detected	Metal debris	Iron: 2.5mm Non-iron 3.0mm Stainless steel:3.5mm	Metal detector	Go through metal detector	Every package	Operators in packing position	Unqualified product to be reworked	Internal record	Check the records and monitor the process from time to time

WUHAN YOUJI INDUSTRIES CO.,LTD.

2023/06/20

武汉有机实业有限公司
WUHAN YOUJI INDUSTRIES CO., LTD.



المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: December 28, 2023

Document #: 21990.13059.II230001

Company Name & Address: **Lanxess Corporation** 111 RIDC Park W Dr Pittsburgh, Pennsylvania 15275 USA

Plant Name & Address: **LANXESS Corporation** 1296 Third Street Northwest Kalama, Washington 98625-9799 USA

Product Name	Product Code	Halal-ID	Product Certificate #
1. Kalama® 3-Phenyl Propanol FCC	-	B26217	HC-23LAF284
2. Kalama® Amyl Cinnamic Aldehyde	-	B29046	HC-23LAKH97
3. Kalama® Benzaldehyde FCC	-	B52753	HC-23LALR98
4. Kalama® Benzaldehyde FCC Low B&T	-	D97816	HC-23LAA299
5. Kalama® Benzyl Alcohol NF/FCC	-	B43297	HC-23LATJ01
6. Kalama® Benzyl Alcohol NF-Parenteral	-	D97817	HC-23LA4802
7. Kalama® Benzyl Benzoate USP/FCC	-	A10158	HC-23LA6U03
8. Kalama® C-10 Aldehyde FCC	-	B87062	HC-23LA9T83
9. Kalama® C-10 Aldehyde FCC W/Tocopherol	-	D97818	HC-23LAEX04
10. Kalama® C-6 Aldehyde FCC	-	B49146	HC-23LAZX82
11. Kalama® C-6 Aldehyde FCC W/Tocopherol	-	D97819	HC-23LABK89
12. Kalama® C-8 Aldehyde FCC	-	A97480	HC-23LA1P81

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **November 30, 2024** and subject to renewal at that time.





المجلس الإسلامي الأمريكي للغذاء و التغذية
THE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA
IFANCA HALAL PRODUCT CERTIFICATE شهادة حلال

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Date: December 28, 2023

Document #: 21990.13059.II230001

Company Name & Address: **Lanxess Corporation** 111 RIDC Park W Dr Pittsburgh, Pennsylvania 15275 USA

Plant Name & Address: **LANXESS Corporation** 1296 Third Street Northwest Kalama, Washington 98625-9799 USA

Product Name	Product Code	Halal-ID	Product Certificate #
13. Kalama® C-8 Aldehyde FCC W/Tocopherol	-	D97820	HC-23LAI890
14. Kalama® Cinnamic Alcohol FCC	-	B12579	HC-23LAKY91
15. Kalama® Cinnamic Aldehyde FCC	-	B12306	HC-23LAS492
16. Kalama® Hexyl Cinnamic Aldehyde	-	A50635	HC-23LAXD93
17. Kalama® Hexyl Cinnamic Aldehyde W/TBHQ	-	D97821	HC-23LA7294
18. Kalama® Potassium Benzoate FCC	-	A12416	HC-23LA9N95
19. Kalama® Sodium Benzoate NF/FCC Dense	-	B57053	HC-23LAZM96
20. Kalama® Sodium Benzoate NF/FCC EDF	-	D97822	HC-23LAEQ88
21. Kalama® Sodium Benzoate NF/FCC Powder	-	D97823	HC-23LAAB87
22. K-Flex® 500	-	A66981	HC-23LAF886
23. K-Flex® DP	-	A48852	HC-23LA2885

Muhammad Munir Chaudry

Muhammad Munir Chaudry, Ph.D.
President



This certificate is valid until **November 30, 2024** and subject to renewal at that time.





ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

בס"ד

April 16, 2024

This is to certify that the following product(s) prepared by

Lanxess Corporation, 111 RIDC Park West Dr., Pittsburgh, PA 15275

at the following facility(ies) are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

LANXESS Corporation - Kalama, 1296 3rd St. NW, Kalama, WA

Product Name	UKD-ID	Status	Certification Requirements
Brand: Emerald Performance Materials			
• Kalama® 3-Phenyl Propanol FCC	Ouw3-A52A65D	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Amyl Cinnamic Aldehyde	Ouw3-F78C119	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Benzaldehyde FCC	Ouw3-12F0CF4	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Benzoic Acid	Ouw3-4E833CD	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 4/30/2025

Page 1 of 7



ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

בס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

April 16, 2024

Lanxess Corporation (continued)

This is to certify that the following product(s) prepared by this company at the facility(ies) listed above are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
Brand: Emerald Performance Materials (continued)			
• Kalama® Benzyl Alcohol NF/FCC	OUW3-4ABFC6E	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Benzyl Alcohol NF-Parenteral	OUW3-5D9BF06	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Benzyl Benzoate USP/FCC	OUW3-1327852	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® C-10 Aldehyde FCC	OUW3-A729AE0	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® C-6 Aldehyde FCC	OUW3-C3975A6	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 4/30/2025

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Emerald Performance Materials (continued)			
• Kalama® C-8 Aldehyde FCC	Ouw3-0AB0FAE	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Cinnamic Alcohol FCC	Ouw3-6BE4EE6	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Cinnamic Aldehyde FCC	Ouw3-F07A55A	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Hexyl Cinnamic Aldehyde	Ouw3-3B7EDB9	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Lanxess Corporation (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Emerald Performance Materials (continued)			
• Kalama® Hexyl Cinnamic Aldehyde	Ouw4-4212D79	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• Kalama® K-FLEX® 500	Ouw3-5ECEf90	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® K-FLEX® 500	Ouw4-D664589	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• Kalama® K-FLEX® 500P	Ouw3-C8EBB3C	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Lanxess Corporation (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Emerald Performance Materials (continued)			
• Kalama® K-FLEX® 500P	OUW4-85DC3E5	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• Kalama® K-FLEX® 850S	OUW3-FA0DB3C	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® K-FLEX® 850S	OUW4-1CCE174	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• Kalama® K-FLEX® DP	OUW3-DAC4A1F	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Lanxess Corporation (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Emerald Performance Materials (continued)			
• Kalama® K-FLEX® DP	Ouw4-905C957	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• Kalama® K-FLEX® PG	Ouw3-D55C053	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® K-FLEX® PG	Ouw4-88CE03C	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• Kalama® Methyl Benzoate FCC	Ouw3-5A44CE9	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Emerald Performance Materials (continued)			
• Kalama® Methyl Cinnamic Aldehyde FCC	Ouw3-6BC2BED	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Potassium Benzoate FCC	Ouw3-D6D3BEB	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Kalama® Sodium Benzoate NF/FCC	Ouw3-86A5574	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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