



Emerald Performance Materials™

EMERALD KALAMA CHEMICAL, LLC.
1296 3RD STREET NORTHWEST,
KALAMA, WA, 98625 U.S.A

13.57.42 10/29/15

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Certificate of Analysis

Send To: RIFA CO., LTD. 70, SEONYUDONG 2-RO YEONGDEUNGPO-GU SEOUL, KOREA		Ship To: RIFA CO., LTD. 70, SEONYUDONG 2-RO YEONGDEUNGPO-GU SEOUL, KOREA	
W/ Ship: QUALITY MANAGER			
Customer Order Number PFRIFA102015	Order Number G676889	PLANT SHIP DATE 10/29/15	
Customer Product Code	Quantity Shipped 14.6	UM EA	Vehicle ID KKFU1853557
Product Description - SODIUM BENZOATE EDF NF/FCC			Lot Number KASBE59223

Test Description	Test Result	Minimum	Maximum
Initial Date of Manufacture	09/24/15		
Last Date of Manufacture	09/25/15		
Recommended Re-Test Date	24 MONTHS		
White Extruded Pellets	PASS		
Arsenic (as As), ppm*	<2 PPM		
Assay, % *	99.9	99.0	101.0
Heavy Metals (as Pb), ppm*	<5 PPM		
Identification, Tests A,B,C*	PASS		
Lead, ppm *	<2 PPM		
Residual Solvents*	PASS		
Alkalinity, %	.00		.04
Water, %	.2		1.5

Product meets all NF/FCC/EP specifications.
*Analysis performed on periodic basis.

This product is manufactured by Emerald Kalama Chemical, LLC at 1296 Third Street N.W. Kalama, Washington, USA, 98625. It has been sampled and analyzed according to the Quality Control Program. This product meets or exceeds Sales Specifications

Charise Hylton, Quality Manager
Certificate of Analysis is password controlled, computer generated, thus not requiring a signature.
Direct Inquiries to Customer Service 800-223-0035.

The date methodology used is Month/Day/Year.

J. Thomas
11/12/15

Emerald Performance Materials, LLC

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