

# Scientific Documentation ME163, Methylparaben, NF

Not appropriate for regulatory submission. Please visit <u>www.spectrumchemical.com</u> or contact Tech Services for the most up-to-date information contained in this information package.

# **Spectrum Chemical Mfg Corp**

769 Jersey Avenue New Brunswick, NJ 08901 Phone 732.214.1300

Ver4.02 5.May.2016



Dear Customer,

Thank you for your interest in Spectrum's quality products and services.

Spectrum has been proudly serving our scientific community for over 45 years. It is our mission to manufacture and distribute fine chemicals and laboratory products with Quality and delivery you can count on every time.

To accomplish our mission, Spectrum utilizes our sourcing leverage and supplier qualification expertise in offering one of the industry's most comprehensive line of fine chemical products under one brand, in packaging configurations designed to meet your research and production requirements. Our product grades include: USP, NF, BP, EP, JP, FCC, ACS, KSA, Reagent grade, as well as DEA controlled substances. We operate facilities in the United States on the East Coast, West Coast, as well as in Shanghai, China in order to provide the best logistical support for our customers.

At Spectrum, Quality is priority number one. Suppliers with the best qualifications are preferred and we employ full-functioning in-house analytical laboratories at each of our facilities. Our facilities and systems are USFDA registered and ISO certified. We frequently host customer audits and cherish opportunities for improvements. Quality is engrained into our culture. Quality is priority number one.

In the following pages, we have designed and prepared documented scientific information to aid you in your initial qualification or your continual use of our products. Please do not hesitate to contact us if further information or the most up-to-date documentation is desired from any of the covered areas.

We appreciate your business and we look forward to hearing from you.

Sincerely,

Alan Wang, MSQA, ASQ CQA Senior Manager of Technical Services techservices@spectrumchemical.com

ME163, Methylparaben, NF

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Item Number	<u>ME163</u>
Item	Methylparaben, NF
CAS Number	99-76-3
Molecular Formula	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>
Molecular Weight	152.15
MDL Number	
Synonyms	Methyl p-Hydroxybenzoate ; Methyl Hydroxybenzoate ; Methyl p-Hydroxybenzoate

Test	Specification		
	Min	Max	
ASSAY ( $C_8H_8O_3$ )	98.0 - 102.0 %		
COLOR OF SOLUTION		TO PASS TEST	
ACIDITY		TO PASS TEST	
RESIDUE ON IGNITION		0.1 %	
RELATED SUBSTANCES		TO PASS TEST	
IDENTIFICATION:A		TO PASS TEST	
IDENTIFICATION:B		TO PASS TEST	
EXPIRATION DATE			
RESIDUAL SOLVENTS		TO PASS TEST	

# Spectrum Chemical Mfg Corp

Corporate Headquarters:	West Coast Facility:
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000





# SAFETY DATA SHEET

Preparation Date: 7/29/2014	<b>Revision Date:</b> 12/22/2014	Revision Number: G2			
1. IDENTIFICATION					
Product identifier	Product identifier				
Product code:					
Product Name:	METHYLPARABEN, NF				
Other means of identification					
Synonyms:	Methyl-p-hydroxybenzoate;				
	Methyl-p-oxybenzoate;				
	p-Hydroxybenzoic acid methyl ester;				
	methyl parahydroxybenzoate;				
	Methyl ester of p-hydroxy benzoic acid; Benzoic acid, p-hydroxy, methyl ester;				
	Aliol, Aseptoform, Maseptol, Metaben, Methyl Chemosept, Metoxyde, Moldex,				
	Nipagin, Paridol,				
	Preserval M, Spetos, Solbrol, Solbrol M, Tegosept M				
CAS #:	99-76-3				
RTECS #	DH2450000 Not available				
CI#:	Not available				
Recommended use of the chen	nical and restrictions on use				
Recommended use:	Antimicrobial. Preservative.				
Uses advised against	No information available				
Sumplian	Spectrum Chemicals and Laboratory Products, Inc.				
Supplier:	14422 South San Pedro St.				
	Gardena, CA 90248				
	(310) 516-8000				
Order Online At:	https://www.spectrumchemical.com				
Emergency telephone number	Chemtrec 1-800-424-9300				
Contact Person:	Martin LaBenz (West Coast)				
Contact Person:	Ibad Tirmiz (East Coast)				
2. HAZARDS IDENTIFICATION					
Classification					

# Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization

Category 1B

## Label elements

### Warning

Hazard statements

May cause an allergic skin reaction



#### Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

## **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

Precautionary Statements - Response Specific treatment (see .? on this label) IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %	Trade Secret
Methylparaben	99-76-3	100	*
99-76-3			

# **4. FIRST AID MEASURES**

First aid measures General Advice:	Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
Eye Contact:	Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed		
SymptomsMay cause eye/skin irritation. May cause allergic skin reaction.		
Indication of any immediate medical attention and special tre Notes to Physician: Treat symptomatically	atment needed	
· · · ·		
Protection of first-aiders First-Aid Providers: Avoid exposure to blood or body fluids. Wear	gloves and other necessary protective clothing. Dispose of	
contaminated clothing and equipment as bio-hazardous waste		
5. FIRE-FIGH	TING MEASURES	
Extinguishing Media		
Suitable Extinguishing Media:	Carbon dioxide (CO2). Dry chemical. Water spray mist or	
	foam.	
Unsuitable Extinguishing Media:	No information available.	
Specific hazards arising from the chemical		
Hazardous Combustion Products:	Carbon monoxide; Carbon dioxide	
Specific hazards:	May be combustible at high temperatures.	
Special Protective Actions for Firefighters		
Specific Methods:	No information available.	
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.	
Environmental precautions	Prevent further leakage or spillage. Prevent entry into waterways, sewers.	
Methods and material for conta	ainment and cleaning up	
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.	
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.	

# 7. HANDLING AND STORAGE

# Precautions for safe handling

# **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Strong oxidizing agents. Bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### National occupational exposure limits

U.S Occupational Exposure Limits: Not determined

#### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
Methylparaben - 99-76-3				

## Canada

#### Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
	None	None	None	None
Methylparaben - 99-76-3				

# Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
Methylparaben	None	None
99-76-3		

#### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

**Eye protection:** Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Effective dust mask. Wear respirator with dust filter...

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Odor: Odorless.

Molecular/Formula weight: 152.15

Flash Point Tested according to: Not available

Autoignition Temperature (°C/°F): No information available

Boiling point/range(°C/°F): 270-280 °C/518-536 °F (decomposes)

**Density (g/cm3):** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available Appearance: Crystals. Crystalline powder.

Taste Slight. Burning.

Flash point (°C): No data available

Lower Explosion Limit (%): No information available

**pH:** No information available

**Decomposition temperature(°C/°F):** No information available

Bulk density: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): 1.96

# Solubility:

Very slightly soluble in water Solubility in Water: 0.25% @ 20 °C; 0.30% @ 25 °C Slightly soluble in Carbon Tetrachloride Soluble in Benzene 1 gram dissolves in about 40 ml of warm oil. 1 gram dissolves in about 70 ml of warm glycerol.

**10. STABILITY AND REACTIVITY** 

#### Reactivity

Reactive with oxidizing agents Reacts with bases

Chemical stability Stability:	Stable at normal conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Avoid dust formation. Incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Bases.
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide.
Other Information	
Corrosivity:	No information available

Color: White.

Formula: C8-H8-O3

Flashpoint (°C/°F): No information available.

Upper Explosion Limit (%): No information available

**Melting point/range(°C/°F):** 125-131 °C/257-267.8 °F

**Specific gravity:** No information available

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

Viscosity: No information available

# **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation. Skin.

**Acute Toxicity** 

### **Component Information**

Methylparaben - 99-76-3

LD50/oral/rat = 2100 mg/kg (RTECS) >5600 mg/kg (Hazardous Substance Data Bank) LD50/oral/mouse = >8000 mg/kg (RTECS) LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available Other LD50 or LC50information = 6000 mg/kg Oral LD50 Rabbit 3000 mg/kg Oral LD50 Guinea pig

**Product Information** 

LD50/oral/rat = VALUE- Acute Tox Oral = 2100mg/kg

LD50/oral/mouse = Value - Acute Tox Oral = >8000mg/kg

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation. May cause sensitization by skin contact. May cause allergic skin reaction.
Eye Contact:	May cause eye irritation.
Inhalation	May cause irritation of respiratory tract.

Ingestion	May cause digestive (gastointestinal) tract irritation It may affect behavior/central nervous system/nervous system/peripherial nervous system (CNS depression, somnolence, ataxia, peripheral nerve and sensation - flaccid paralysis without anesthesia (usually neuromuscular blockage)			
Aspiration hazard	No information available			
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Chronic Toxicity	Skin: Prolonged or repeated skin contact may cause allergic contact dermatitis (allergic skin reaction). Ingestion: Prolonged or repeated ingestion may cause weight loss, and may affect the endocrine system (adrenal gland, thyroid (thyroid hypofunction)			
Sensitization:	May cause sensitization by skin contact			
Mutagenic Effects:	May affect genetic material			

Carcinogenic effects:

Not considered carcinogenic.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Methylparaben	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity	No data is available
Reproductive Effects: Developmental Effects: Teratogenic Effects:	No information available No information available No information available
Specific Target Organ Toxicity	

STOT - single exposure	No information available
STOT - repeated exposure	No information available
Target Organs:	No information available

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available
Mobility:	No information available

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

# **13. DISPOSAL CONSIDERATIONS**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# **Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Methylparaben	None	None	None	None

# **14. TRANSPORT INFORMATION**

# DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	Not applicable
Packing Group:	None
Marine Pollutant	No data available
ERG No:	No information available
DOT RQ (Ibs):	No information available

# TDG (Canada)

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available

## ADR

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Classification Code:	No information available
Description:	No information available
CEFIC Tremcard No:	No information available

# IMO / IMDG

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available
IMDG Page:	No information available
Marine Pollutant	No information available
MFAG:	No information available
Maximum Quantity:	No information available

# RID

UN-No:	
<b>Proper Shipping Nan</b>	ne:
Hazard Class:	

Not Regulated No information available No information available

# **14. TRANSPORT INFORMATION**

Subsidiary Risk:	No information available
Packing Group:	No information available
Classification Code:	No information available
Description:	No information available

# **ICAO**

Not Regulated
No information available

# ΙΑΤΑ

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available

# **15. REGULATORY INFORMATION**

# **International Inventories**

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Methylparaben	Present	Present KE- 20379	Present	Present (3)- 1585	Present	Present	Present 202-785-7

# **U.S. Regulations**

Methylparaben

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1490

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer: This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity: This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
Methylparaben	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

••••	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Hazardous	<b>Chemical Category</b>	Section 313 - Reporting de minimis
Methylparaben	None	None	None	None	None

#### U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Methylparaben	Not Applicable	Not Applicable

# Canada

# WHMIS hazard class:

D2B Toxic materials

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components	Canada (DSL)	Canada (NDSL)
Methylparaben	Present	Not Listed

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Methylparaben	Not listed	Not listed

## **EU Classification**

## R-phrase(s)

not determined none

#### S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Methylparaben		No information	

## The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

Not dangerous

# **16. OTHER INFORMATION**

16. OTHER INFORMATION		
NFPA	HMIS	Personal Protective Equipment
	Health Hazard1Fire Hazard1Reactivity0	

7/29/2014

12/22/2014

Sonia Owen

Preparation Date: Revision Date: Prepared by:

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 



# Manufacturer

Product Covered: ME163, Methylparaben, NF

Spectrum takes ownership as the manufacturer for the Spectrum product listed above and provides full quality assurance, customer service, and technical product support.

While information concerning the raw material manufacturer of our starting materials is considered proprietary, such information can be made available upon request contingent on demonstration of business volume justification and successful execution of confidential disclosure agreement (CDA).

Requests for disclosure of proprietary raw material manufacturer information may be submitted to the assigned account representative for consideration.

Sincerely,

Alan Wang, MSQA, ASQ CQA Senior Manager of Technical Services techservices@spectrumchemical.com

# **Certificate of Registration**



This is to certify that the quality management system of

# Spectrum Chemicals and Laboratory Products, Frc

Main Site: 14422 South San Pedro Street, Gardena, California, 90248, USA

Additional Sites: 13915 South Main Street, Los Angeles, California, 90061, USA 755 Jersey Avenue, New Brunswick, New Jersey, 08901, USA 769 Jersey Avenue, New Brunswick, New Jersey, 08901, USA 7400 North Oracle Road, Suite 221, Tucson, Arizona, 85704, USA

has been assessed and registered by Intertek as conforming to the requirements of

# **ISO 9001:2008**

The quality management system is applicable to

**California and New Jersey sites:** The manufacture and distribution of specialty fine chemicals, solutions, equipment, supplies and products for the laboratory, pharmaceutical, food, healthcare, cosmetic, fragrance, biotechnology, environmental and process industries.

Arizona site: Supporting Spectrum's two manufacturing facilitates by: selecting and gualifying distributors of Laboratory and Safety Equipment; processing bids and quotes to generate new sales opportunities; sourcing bulk chemicals in support of bulk bids and guotes; assisting production operations through order expediting and IT infrastructure support.

Certificate Number: 94-316m-01 Initial Certification Date: 27 December 1994 Certificate Issue Date: Certificate Expiry Date:

29 January 2016 14 September 2018

Calin Moldovean, President

Intertek Testing Services NA, Inc.

900 Chelmsford Street, Suite 301-3, Lowell, MA, USA



CERTIFICATION



Intertek Intertek

In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at certificate.validation@intertek.com or by scanning the code to the right with a smartphone.

# **Certificate of Registration**



This is to certify that the quality management system of

# Spectrum China Ltd.

# Building A20, No. 3802, Shengang Road, Songjiang District, Shanghai, China

has been assessed and registered by Intertek as conforming to the requirements of

# ISO 9001: 2008

The quality management system is applicable to:

Provision of service of purchase, testing and sales for chemical products, repacking of non-hazardous chemical products.

Organization Code: Certificate Number: Certificate Issue Date: Certificate Expiry Date: 77762704-8 111310001-01 17 November 2015 14 September 2018



014

Authorised Signature: Calin Moldovean – President, Business Assurance Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.

In the issuance of this certificate, Intertek assumes no liability to any party other than to the client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at <u>certificate.validation@intertek.com</u> or by scanning the code to the right with a smartphone. The annual validity of the certificate a also be checked through the website <u>http://www.cnca.gov.cn</u> of CNCA in China.



The certificate remains the property of Intertek, to whom it must be returned upon request.



March 28, 2016

# Certificate of cGMP

Dear Valued Customer:

Spectrum Chemicals and Laboratory Products certify that our USP, NF, FCC, EP, BP, JP, and food grade products are produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Spectrum is an FDA registered and inspected drug establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: Spectrum-New Brunswick, NJ: Spectrum -Shanghai, China: 2020632 2246824 3006174778

Thank you for your interest with Spectrum products. Please feel free to contact the Quality Assurance department at 310-516-8000 or via email at <u>qualityassurance@spectrumchemical.com</u> if we may be of further assistance.

Sincerely,

Michelle Wester

Michelle Weston Quality Assurance Specialist



April 25, 2016

# Certificate of cGMP

Dear Valued Customer:

Spectrum Chemicals and Laboratory Products certify that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name
ME163	Methylparaben, NF

Spectrum is an FDA registered and inspected drug establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: Spectrum-New Brunswick, NJ: Spectrum-Shanghai, China: 2020632 2246824 3006174778

Thank you for your interest with Spectrum products. Please feel free to contact the Quality Assurance department at 310-516-8000 or via email at <u>qualityassurance@spectrumchemical.com</u> if we may be of further assistance.

Sincerely,

Michelle Wester

Michelle Weston Quality Assurance Specialist



April 27, 2016

Re: Methylparaben, NF-ME163

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

We at Spectrum Chemical Mfr. Corp. understand the concern regarding Bovine Spongiform Encephalopathy (BSE). Please be assured that the chemical

Methylparaben, NF-ME163

is BSE/TSE free.

If you have any further questions, please contact Tech Services at (310) 516-8000 Extension 5471, or by email at <u>techservices@spectrumchemical.com</u>.

Sincerely,

Darlene Dagdag-Lyudmirskiy Technical Services Spectrum Chemical Mfr. Corp.

This document has been produced electronically and is valid without a signature



April 27, 2016

Re: Methylparaben, NF-ME163

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

We at Spectrum Chemical Mfr. Corp. understand the concern regarding the presence of allergens in raw materials. Please be assured that the following chemical does not contain (Milk; Egg; Fish; Shellfish; Sulfur dioxide and sulfites at concentrations of more than 10 mg/kg or 10 mg/liter expressed as SO<sub>2</sub>; Tree nuts; Wheat; Peanuts; Soy; Cereals containing Gluten; Celery; Mustard; Sesame Seed).

Methylparaben, NF-ME163

If you have any further questions, please contact Tech Services at (310) 516-8000 Extension 5471, or by email at <u>techservices@spectrumchemical.com</u>.

Sincerely,

Darlene Dagdag-Lyudmirskiy Technical Services Spectrum Chemical Mfr. Corp.

This document has been produced electronically and is valid without a signature



May 3, 2016

Re: Methylparaben, NF-ME163

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

We at Spectrum Chemical Mfg. Corp. understand the concern regarding Aflatoxins in raw materials. To the best of our knowledge, the product listed below is not contaminated with Aflatoxins. Aflatoxins are not used in production. The following product does not come in contact with Aflatoxins at any stage of production.

Methylparaben, NF-ME163

If you have any further questions, please contact Tech Services at (310) 516-8000 Extension 5471, or by email at <u>techservices@spectrumchemical.com</u>.

Sincerely,

Darlene Dagdag-Lyudmirskiy Technical Services Spectrum Chemical Mfr. Corp.

This document has been produced electronically and is valid without a signature



WHITE: Corrosive

# **Label Information**

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication.



# Spectrum Chemical Mfg Corp

*Corporate Headquarters:* 769 Jersey Ave. New Brunswick, NJ 08901 West Coast Facility: 14422 S. San Pedro St. Gardena, CA 90248

732.214.1300

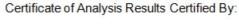
310.516.8000



Item Number	ME163	Lot Number	1EF0372
Item	Methylparaben, NF		
CAS Number	99-76-3		
Molecular Formula	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	Molecular Weight	152.15

Test	Specification		Result
	min	max	
ASSAY $(C_8H_8O_3)$	98.0 - 102.0 %		99.3 %
COLOR OF SOLUTION		TO PASS TEST	PASSES TEST
ACIDITY		TO PASS TEST	PASSES TEST
RESIDUE ON IGNITION		0.1 %	<0.1 %
RELATED SUBSTANCES		TO PASS TEST	PASSES TEST
IDENTIFICATION:A		TO PASS TEST	PASSES TEST
IDENTIFICATION:B		TO PASS TEST	PASSES TEST
EXPIRATION DATE			19-JAN-2020
RESIDUAL SOLVENTS		TO PASS TEST	NO RESIDUAL SOLVENTS USED
APPEARANCE			WHITE POWDER
MANUFACTURE DATE			19-JAN-2015

Spectrum Chemical Mfg Corp 14422 South San Pedro Street Gardena 90248 CA



Adan Hernandez Quality Control Manager Spectrum Chemicals & Laboratory Products

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.



Item Number	ME163	Lot Number	2EF0543
Item	Methylparaben, NF		
CAS Number	99-76-3		
Molecular Formula	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	Molecular Weight	152.15

Test	Specification		Result
	min	max	
ASSAY $(C_8H_8O_3)$	98.0 - 102.0 %		99.30 %
COLOR OF SOLUTION		TO PASS TEST	PASSES TEST
ACIDITY		TO PASS TEST	PASSES TEST
RESIDUE ON IGNITION		0.1 %	<0.1 %
RELATED SUBSTANCES		TO PASS TEST	PASSES TEST
IDENTIFICATION:A		TO PASS TEST	PASSES TEST
IDENTIFICATION:B		TO PASS TEST	PASSES TEST
EXPIRATION DATE			19-JAN-2020
RESIDUAL SOLVENTS		TO PASS TEST	NO RESIDUAL SOLVENTS USED
APPEARANCE			WHITE CRYSTALS
DATE OF MANUFACTURE			19-JAN-2015

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Certified By:

Mulbah F. Dwanah Laboratory Supervisor Spectrum Chemicals & Laboratory Products

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.



January 26, 2016

# RE: Lot Numbering System

Dear Valued Customer:

This letter is to inform you of Spectrum Chemicals and Laboratory Products' Lot Numbering System. The system is based on an alpha-numerical sequence which provides the month, year and location of production.

The lot numbering system utilized until 2010 is a sequence of **six characters**, two letters followed by four numbers. The first letter represents the year, for example, Y denotes 2009 and Z denotes 2010. The second letter represents the month and site, for example, A-L denotes January through December at Spectrum's Gardena, CA facility, while M-X denotes January through December at the New Brunswick, NJ facility. The following four numbers are sequentially assigned.

**Example**: ZI0928 = The 928<sup>th</sup> material produced in California in September 2010

The lot numbering system utilized for 2011 and forward, is a sequence of **seven characters**. The first character, a number, represents the production facility:

1 = Gardena, CA Facility 2 = New Brunswick, NJ Facility 3 = China Facility

The second character, a letter, represents the year. For example, A denotes 2011 and B denotes 2012. The third character, a letter, represents the month, with A denoting January and L denoting December. The following four numbers are sequentially assigned.

**Example**: 2AA0706 = The 706<sup>th</sup> material produced in New Jersey in January 2011

Thank you for your interest with Spectrum products. Please feel free to contact us at 310-516-8000 or via email at <u>qualityassurance@spectrumchemical.com</u> if we may be of further assistance.

Sincerely,

1 lan

Michael Dang Manager, GMP Compliance



# **Stability – Shelf Life Guidance**

Product Covered: ME163, Methylparaben, NF

Spectrum Chemical's manufacturing partner has assigned the following shelf life guidance for the product listed above.

The product, ME163, Methylparaben, NF, is assigned a 60 months shelf life from date of manufacturing. The quality and integrity of the chemical depends on the handling and storage conditions. Please refer to the Safety Data Sheet for proper storage and handling procedures.

Adan R. Hernandez Quality Control Manager

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Corporate Headquarters 769 Jersey Avenue New Brunswick, NJ 08901-3605