

Scientific Documentation

Metronidazole, USP

Not appropriate for regulatory submission.

Please visit www.spectrumchemical.com 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





Table of Contents

Product Specification Certificate of Analysis Safety Data Sheet (SDS) Certification of Current Good Manufacturing Practices (cGMP)



Specification for Metronidazole, USP (M1511)

Item Number	M1511
Item	Metronidazole, USP
CAS Number	443-48-1
Molecular Formula	$C_6H_9N_3O_3$
Molecular Weight	171.15
MDL Number	
Synonyms	

Test	Sp	pecification
	Min	Max
ASSAY (DRIED BASIS)	99.0	101.0%
LOSS ON DRYING		0.5%
ORGANIC IMPURITIES:		
TINIDAZOLE RELATED COMPOUND A		0.1 %
ANY SINGLE UNSPECIFIED IMPURITY		0.1 %
Total impurities		0.2 %
RESIDUE ON IGNITION		0.1 %
ELEMENTAL IMPURITIES		AS REPORTED
IDENTIFICATION		TO PASS TEST
EXPIRATION DATE		
DATE OF MANUFACTURE		
APPEARANCE		
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 08901Gardena, CA 90248732.214.1300310.516.8000



Certificate Of Analysis

Item Number	M1511	Lot Number	4HL0013
Item	Metronidazole, USP	Manufacturer Lot	RMTZP80224
CAS Number	443-48-1	Manufacturer Code	13524
Molecular Formula	$C_6H_9N_3O_3$	Molecular Weight	171.15

TECT	SPECIF	ICATION	DECLUT
TEST	MIN	MAX	RESULT
ASSAY (DRIED BASIS)	99.0	101.0%	100.4 %
LOSS ON DRYING		0.5%	0.16 %
ORGANIC IMPURITIES:			
TINIDAZOLE RELATED COMPOUND A		0.1 %	0.01 %
ANY SINGLE UNSPECIFIED IMPURITY		0.1 %	0.01 %
Total impurities		0.2 %	0.04 %
RESIDUE ON IGNITION		0.1 %	0.04 %
ELEMENTAL IMPURITIES		AS REPORTED	NO ELEMENTAL IMPURITIES PRESENT
IDENTIFICATION		TO PASS TEST	PASSES TEST
EXPIRATION DATE			31-JUL-2023
DATE OF MANUFACTURE			01-AUG-2018
APPEARANCE			WHITE TO SLIGHTLY YELLOW POWDER
RESIDUAL SOLVENTS		TO PASS TEST	PASSES TEST
CLASS 3 (solvent) / ACETIC ACID			<5000 ppm

Certificate of Analysis Results Entered By:

MPEREZ Melchor Perez 28-APR-20 13:49:41

Spectrum Chemical Mfg Corp 777 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

MPEREZ Melchor Perez 28-APR-20 13:49:55

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

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

Spectrum Chemical Mfg. Corp. repackages Active Pharmaceutical Ingredient chemicals provided by other manufacturers and suppliers. For traceability purposes, Spectrum's Certificate of Analysis contains an identifier code unique to each manufacturer or supplier, as well as the chemical's lot number provided on the original manufacturer Certificate of Analysis. This material is manufactured by Unichem Laboratories Limited at Plot No. 99, MIDC Area, Roha, Raigad, Maharashtra 402116, India. Copies of the original Certificate of Analysis are available upon request from your Spectrum Sales Representative or by calling Spectrum's Quality Department at 1-800-772-8786.





SAFETY DATA SHEET

Preparation Date: 9/21/2016 Revision date 09/06/2019 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: M1511

Product Name: METRONIDAZOLE, USP

Other means of identification

Synonyms: 1-(2-Hydroxy-1-ethyl)-2-methyl-5-nitroimidazole

1-(2-Hydroxyethyl)-2-methyl-5-nitroimidazole 1-(beta-Ethylol)-2-methyl-5-nitro-3-azapyrrole 1-(beta-Hydroxyethyl)-2-methyl-5-nitroimidazole 1-(beta-Oxyethyl)-2-methyl-5-nitroimidazole 1-(hidroxyethyl)-2-methyl-5-nitroimidazole 1-Hydroxyethyl-2-methyl-5-nitroimidazole 2-Methyl-1-(2-hydroxyethyl)-4-nitroimidazole 2-Methyl-3-(2-hydroxyethyl)-4-nitroimidazole

2-Methyl-5-nitroimidazole-1-ethanol Imidazole-1-ethanol, 2-methyl-5-nitro-

CAS #: 443-48-1 RTECS # N15600000 CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Research and Development.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

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:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Carcinogenicity Category 2

Label elements

Product code: M1511 Product name: METRONIDAZOLE, Page 1 / 12

Warning

Hazard statements

Suspected of causing cancer



Hazards not otherwise classified (HNOC)

May be harmful if swallowed

Other hazards

Not available

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Metronidazole	443-48-1	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes 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. Obtain medical attention.

Product code: M1511 Product name: METRONIDAZOLE, Page 2/12

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation

May cause respiratory irritation May cause stomach pain

Nausea Vomiting Dizziness Headache Somnolence Tremors Convulsions Irritability Hallucinations

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

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-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist, or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides

(NOx).

Specific hazardsMay 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

Product code: M1511 Product name: METRONIDAZOLE, Page 3 / 12

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid

contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid

dust formation. Avoid breathing dust. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment 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. Ensure adequate ventilation. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice:

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

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Sensitive to light. Store in light-resistant containers. Protect from light. Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials. Store at room temperature in the original container.

Incompatible Materials:

Strong oxidizing agents Bases

Aluminum

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Metronidazole	443-48-1	None	None	None	None

Canada

Component CAS No Ca	Canada - Alberta C	Canada - British	Canada - Ontario	Canada - Quebec
---------------------	--------------------	------------------	------------------	-----------------

Product code: M1511 Product name: METRONIDAZOLE, Page 4 / 12

				Columbia		
Ī	Metronidazole	443-48-1	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Metronidazole	443-48-1	None	None

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: Goggles or Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron

Long sleeved clothing

Gloves

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Powder. White. Pale Yellow.

Odor:TasteFormulaOdorless.No information available.C6H9N3O3

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

171.15 no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 159° - 162°F (318° - 323.6°F) No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

Specific gravity:

Product code: M1511 Product name: METRONIDAZOLE, Page 5 / 12

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

No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Sparingly soluble in alcohol

Sparingly soluble in Dimethylformamide

Slightly soluble in chloroform Slightly soluble in Ether Slightly soluble in Acetone Soluble in dilute acids

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Sensitive to light. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Exposure to light. Incompatible materials. Ignition sources.

Incompatible Materials: Strong oxidizing agents

Bases Aluminum

Hazardous decomposition

products:

Carbon oxides. Nitrogen oxides (NOx).

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation. Skin.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document Component Information

Metronidazole	
CAS No	443-48-1

Product code: M1511 Product name: METRONIDAZOLE, Page 6 / 12

LD50/oral/rat = 3 g/kg Oral LD50 Rat

LD50/oral/mouse = 3800 mg/kg Oral LD50 Mouse

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Toxicity = 3000 mg/kg

LD50/oral/mouse =

Value - Acute Tox = 3800 mg/kg

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

VALUE - Acute Tox = 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.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion May cause digestive (gastointestinal) tract irritation. May cause mild stomach pain.

Ingestion may cause nausea, vomiting. May cause metallic taste. May affect liver.

May affect behavior/central nervous system (dizziness, headache).

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated

ingestion may affect the urinary system. Prolonged or repeated ingestion may

affect behavior/central nervous system.

Sensitization: No information available.

Mutagenic Effects: No information available

Product code: M1511 Product name: METRONIDAZOLE, Page 7 / 12

Carcinogenic effects: Suspected of causing cancer.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Metronidazole		Supplement 7 [1987] Monograph 13 [1977]		Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Metronidazole	443-48-1	None	None	None	None

Product code: M1511 Product name: METRONIDAZOLE, Page 8 / 12

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Product code: M1511 Product name: METRONIDAZOLE, Page 9/12

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
No information available
No information available
No information available
No information available

Precautionary Statements -

Response

Special Provisions No information available

15. REGULATORY INFORMATION

No information available

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Metronidazole	443-48-1	Not Listed	Present KE-20530	Present	Not present	Present	Present	Present 207-136-1

U.S. Regulations

Metronidazole

Massachusetts RTK: Present

Pennsylvania RTK: Special hazardous substance

Pennsylvania RTK - Special Hazardous Substances Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances: 1 lb RQ

California Directors List of Hazardous Substances: Present

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

Chemicals Known to the State of California to Cause Cancer:

MARNING: This product contains a chemical known to the State of California to cause cancer. (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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Metronidazole	443-48-1	carcinogen	Not Listed	Not Listed	Not Listed

CERCLA/SARA

	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Metronidazole	443-48-1	None	None	None	None	None

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Metronidazole	443-48-1	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

Product code: M1511 Product name: METRONIDAZOLE, Page 10 / 12

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Metronidazole	443-48-1	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Metronidazole	443-48-1	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Metronidazole	443-48-1	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Metronidazole	443-48-1	

EU - CLP (1272/2008)

R-phrase(s)

R40 - Limited evidence of a carcinogenic effect

S -phrase(s)

S 2 - Keep out of the reach of children.

S36/37 - Wear suitable protective clothing and gloves

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Metronidazole	443-48-1		No information	

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

Indication of danger:

Xn - Harmful

Χn



16. OTHER INFORMATION

Preparation Date: 9/21/2016
Revision date 09/06/2019
Prepared by: Sonia Owen

Product code: M1511 Product name: METRONIDAZOLE, Page 11 / 12

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

Product code: M1511 Product name: METRONIDAZOLE, Page 12 / 12



Certification of Compliance with current Good Manufacturing Practices

Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies 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
M1511	Metronidazole, USP

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: 2020632 Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at qualityassurance@spectrumchemical.com

Sincerely,
Quality Assurance
Spectrum Chemical Mfg. Corp.

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