

Scientific Documentation

Palmitic Acid, FCC

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





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Specification for Palmitic Acid, FCC (P1513)

Item Number	P1513
Item	Palmitic Acid, FCC
CAS Number	57-10-3
Molecular Formula	C ₁₆ H ₃₂ O ₂
Molecular Weight	256.42
MDL Number	
Synonyms	Hexadecanoic Acid

Test	Specification	
	Min	Max
ACID VALUE	204	220
SAPONIFICATION VALUE	205	221
TITER (SOLIDIFICATION POINT)	53.3° - 62°C	
IODINE VALUE		2.0
LEAD (Pb)		0.1 mg/kg
RESIDUE ON IGNITION		0.1 %
UNSAPONIFIABLE MATTER		1.5 %
WATER		0.2 %
IDENTIFICATION	TO PASS TEST	
APPEARANCE		
EXPIRATION DATE		
DATE OF MANUFACTURE		

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



Certificate Of Analysis

Item Number	P1513	Lot Number	2NB0190
Item	Palmitic Acid, FCC	CAS Number	57-10-3
Molecular Formula	C ₁₆ H ₃₂ O ₂	Molecular Weight	256.42

TFCT	SPECIFICATION			
TEST	MIN	MAX	RESULT	
ACID VALUE	204	220	207.0 ml	
SAPONIFICATION VALUE	205	221	212.0	
TITER (SOLIDIFICATION POINT)	53.3° - 62°C		61.0 °C	
IODINE VALUE		2.0	< 0.1	
LEAD (Pb)		0.1 mg/kg	< 0.1 mg/kg	
RESIDUE ON IGNITION		0.1 %	0.1 %	
UNSAPONIFIABLE MATTER		1.5 %	0.1 %	
WATER		0.2 %	< 0.1 %	
IDENTIFICATION	TO PASS TEST		PASSES TEST	
APPEARANCE			WHITE CRYSTALLINE FLAKES	
EXPIRATION DATE			01-JUN-2027	
DATE OF MANUFACTURE			08-SEP-2022	
MONOGRAPH EDITION			FCC 13	

Certificate of Analysis Results Entered By:

CMARIN Catherine Marin 07-MAR-24 07:04:54

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

GHERRERA Genaro Herrera 19-MAR-24 08:05:22

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.

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SAFETY DATA SHEET

Preparation Date: 03/19/2015

Revision Date: 06/15/2018

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code:P1513Product Name:PALMITIC ACID, FCC

Other means of identification Synonyms:

CAS #: RTECS # CI#: Hexadecanoic acid; Cetylic acid; 1-Pentadecanecarboxylic acid; Emersol; Hexadecylic acid; Hydrofol; Hystrene; n-Hexadecoic acid 57-10-3 RT4550000 Not available

Recommended use of the chemical and restrictions on use Recommended use: No information available.

Recommended use: Uses advised against

Supplier:Spectrum Chemical Mfg. Corp14422 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

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

No information available

Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components		CAS-No.	Weight %
Palmitic Acid		57-10-3	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:			f water removing all contaminated clothing and lops. Consult a physician if necessary.
Eye Contact:	Flush eyes with water persist, call a physicia		edical attention if irritation occurs. If symptoms
Inhalation:	Move to fresh air. If no oxygen. Get medical a		ial respiration. If breathing is difficult, give
Ingestion:		g without medical advid Consult a physician if n	e. Never give anything by mouth to an ecessary.
Most important symptoms and	effects, both acute and de	elayed	
Symptoms	Health injuries are no	t known or expected un	der normal use
Indication of any immediate me	dical attention and specia	I treatment needed	
Notes to Physician:	Treat symptomatically.		
Protection of first-aiders First-Aid Providers: Avoid expose contaminated clothing and equipr			necessary protective clothing. Dispose of
	5. FIRE-FIG	HTING MEASURE	S
Extinguishing Media Suitable Extinguishing Medi	a:	Carbon dioxide (foam.	CO2). Dry chemical. Water spray mist or
Unsuitable Extinguishing Mo	edia:	No information a	vailable.
Specific hazards arising f	rom the chemical		
- · · · · · · · · · · · · · · · · · · ·			
Hazardous Combustion Products:		Carbon Monoxid	e, Carbon Dioxide.
Specific hazards:		May be combust	ible at high temperatures.
Special Protective Action	s for Firefighters		
Specific Methods:		No information a	vailable.
Special Protective Equipment for Firefighters:			ear self-contained breathing apparatus d, MSHA/NIOSH (approved or equivalent) e 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. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods and material for conta	inment 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. 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. Do not ingest. Do not breathe 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:

Oxidizing agents Reducing agents Bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Palmitic Acid	57-10-3	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Palmitic Acid	57-10-3	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico

Palmitic Acid	57-10-3	None None	
Appropriate engineering control	<u>s</u>		
Engineering measures to reduce	local exhaust ve keep airborne le If user operation	e ventilation. Use process enclosures, ntilation, or other engineering controls to vels below recommended exposure limits. s generate dust, fume or mist, use ep exposure to airborne contaminants ure limit.	
Individual protection measures,	such as personal protective equipment	<u>nt</u>	
Personal Protective Equipment			
Eye protection:	Safety glasses with side-shields		
Skin and body protection:	Chemical resistant apron Gloves Long sleeved clothing		
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 clothin immediately after handling the product.	ng. Wash hands before breaks and When using, do not eat, drink or smoke.	
9.	. PHYSICAL AND CHEMICAL PROP	PERTIES	
Physical state: Solid	Appearance: Crystalline. Crystals.	Color: White.	
Odor: No information available.	Taste No information available.	Formula: C16H32O2	
Molecular/Formula weight: 256.42	Flammability: No information available	Flashpoint (°C/°F): No information available.	
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available	
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): 61°-64°C/141.8°-147.2°F	Decomposition temperature(°C/°F): No information available	
Boiling point/range(°C/°F): 350°C/662°F	Bulk density: No information available	Density (g/cm3): No information available	
Specific gravity: 0.853	pH: No information available	Vapor pressure @ 20°C (kPa): No information available	
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available	
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water):		

Product code: P1513

Product name: PALMITIC ACID, FCC

Miscibility: No information available	Solubility: Freely soluble in Chloroform Freely soluble in hot alcohol Freely soluble in propyl alcohol Practically insoluble in cold water Soluble in Acetone Soluble in aromatic and oxygenated solvents Soluble in diethyl ether Soluble in Ethanol
	10. STABILITY AND REACTIVITY
Reactivity Reactive with alkalis Reactive with oxidizing agents Reacts with reducing agents	
Chemical stability	
Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	: Hazardous polymerization does not occur
Conditions to avoid:	Heat. Avoid dust formation. Incompatible materials.
Incompatible Materials:	Oxidizing agents Reducing agents Bases
Hazardous decomposition products:	Carbon oxides.
Other Information	No information qualitable

No information available

7.2

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

Acute Toxicity

Corrosivity:

Component Information

Palmitic Acid					
CAS-No.	57-10-3				
LD50/oral/rat = > 10 g/kg Oral LD50 Rat					
LD50/oral/mouse = No information available					
LD50/dermal/rabbit = No information available					
LD50/dermal/rat = No information	tion 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 Tox Oral = > 10000 mg/kg

LD50/oral/mouse = Value - Acute Tox Oral = No information available

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.
Eye Contact:	May cause eye irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Health injuries are not known or expected under normal use.
Aspiration hazard	No information available.

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

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects:

Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Palmitic Acid	57-10-3	Not listed	Not listed	Not listed	Not listed	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	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	Aquatic environment.
Palmitic Acid - 57-10-3 Freshwater Fish Species Data:	150 mg/L LC50 Oryzias latipes 96 h 1
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility:	No 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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Palmitic Acid	57-10-3	None	None	None	None

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 Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available

Description:

No information available

Decemption	
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
Marine Pollutant	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 No information available
Subsidiary Risk:	
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
Marine Pollutant	No information available
RID	
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
	Not Dogulated
UN-No: Proper Shipping Name:	Not Regulated No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	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
ERG Code:	No information available No information available
Special Provisions	

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Palmitic Acid	57-10-3	PresentACTIV E	Present KE-18438	Present	Present (2)-608	Present	Present	Present 200-312-9

U.S. Regulations

Palmitic AcidFDA - Direct Food Additives21 CFR 172.860FDA - 21 CFR - Total Food Additives172.210, 172.860, 173.340

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	CAS-No.	Carcinogen	Developmental Toxicity		Female Reproductive
				Toxicity	Toxicity:
Palmitic Acid	57-10-3	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	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
Palmitic Acid	57-10-3	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Palmitic Acid	57-10-3	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria. Information:

Canada Hazardous Products Regulation This product has 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

WHMIS 1988 Hazard Class

Non-controlled

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	CAS-No.	Canada (DSL)	Canada (NDSL)
Palmitic Acid	57-10-3	Present	Not Listed
			•

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Palmitic Acid	57-10-3	Not listed
Components		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Palmitic Acid	57-10-3	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Palmitic Acid	57-10-3	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Palmitic Acid	57-10-3		No information	
The product is class	ified in accordance with	Annex VI to Directive	67/5/8/EEC	

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

Indication of danger: None.

16.	OTHER	INFORMATION

Preparation Date:	03/19/2015
Revision Date:	06/15/2018
Prepared by:	Sonia Owen

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

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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
P1513	Palmitic Acid, FCC

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:	<u>2020632</u>
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 <u>gualityassurance@spectrumchemical.com</u>

Sincerely,

Outer Clamy

Oralia Chavez Quality Assurance Specialist

spectrum

P1513, Palmitic Acid, FCC

Source Statement

The above mentioned catalog item is manufactured by plant derived material (Palm). No animal derived products are used in the manufacturing process.

BSE/TSE Statement

The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

Allergen Statement

The above mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy

- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

EU Fragrance Allergen Statement

The above mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to the following chemical and therefore are not expected to be present.

GMO Statement

The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

Melamine Statement

The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.



Nitrosamine Statement

Based on knowledge of the manufacturing process, nitrosamine impurities are not known or suspected to be present in this material.

Animal Testing Statement

The above mentioned catalog item has not been tested on animals.

Organic Compliance Statement

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

Shelf Life Statement

The above mentioned catalog item is typically assigned a shelf life of 60 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

Other Chemicals Statement

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Antibiotics
- Bisphenol A (BPA)
- CMR Substances

- Parabens
- Pesticides
- Phthalates
- Preservatives

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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. Below you will find a typical label example for this catalog item.

$C_{16}H_{32}O_{2}$	F.W. 256.42
10 32 2	

Acid Value204-220

Saponification Value205-221

Titer (Solidification Point) 53.3°-62°C

MAXIMUM LIMITS

lodine Value2.0

Lead0.1 mg/kg

Residue on Ignition0.1%

Unsaponifiable Matter1.5%

Water0.2%

www.P65Warnings.ca.gov

WARNING: Cancer and Reproductive Harm-

USE CARE: This material has been
evaluated per GHS/OSHA criteria and
is not classified as hazardous. All
chemicals may pose unknown hazards
- and must be used with caution. Use
🕻 personal protection and safe handling
■ methods consistent with proper
° workplace safety practices. Consult
SDS for additional properties and
precautions. If adverse reaction occurs
seek medical attention.
KEEP FROM CHILDREN

Exp. Date: 00-00-0000

P1513 SIZ SY Palmitic Acid

F.C.C.

CAS 57-10-3

CAUTION: For manufacturing, processing or repacking.

Read and understand the label and Safety Data Sheet (SDS) prior to use.

Chemical Emergency: (800)424-9300 www.SpectrumChemical.com

G 3/G7GHS ? Lot No. XQ#####

Spectrum Chemical Mfg Corp

Corporate Headquarters:

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

732.214.1300