

Scientific Documentation

MA140, Magnesium Trisilicate, Powder, USP

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

Ver4.04 24.July.2018



Dear Customer,

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

Spectrum has been proudly serving the 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,

1 Jan

Michael Dang Director, Quality Systems & GMP Compliance mdang@spectrumchemical.com

MA140, Magnesium Trisilicate, Powder, USP

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Item Number	<u>MA140</u>
Item	Magnesium Trisilicate, Powder, USP
CAS Number	39365-87-2
Molecular Formula	2MgO.3SiO ₂ .xH ₂ O
Molecular Weight	260.86 + XH2O
MDL Number	
Synonyms	

Test	Speci	fication
	Min	Max
ASSAY (MgO)	20.0 %	
ASSAY (SiO ₂)	45.0 %	
WATER DETERMINATION	17.0	34.0 %
ACID-CONSUMING CAPACITY (0.1N HCl/g)	140	160 ml
RATIO (Si02:MgO)	2.10	2.37
SOLUBLE SALTS		1.5 %
CHLORIDE (Cl)		0.055 %
SULFATE		0.5 %
FREE ALKALI		TO PASS TEST
ARSENIC (As)		8 ppm
ELEMENTAL IMPURITIES:		
LEAD (Pb)	AS REPORTED	
IDENTIFICATION		TO PASS TEST
CERTIFIED KOSHER		
CERTIFIED HALAL		
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 08901	Gardena, CA 90248
732.214.1300	310.516.8000

spectrum®



SAFETY DATA SHEET

Preparation Date: 3/7/2017

Revision Date: 3/7/2017

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: Product Name: MA140 MAGNESIUM TRISILICATE, POWDER, USP

Other means of identification Synonyms: CAS #: RTECS # CI#:

Magnesium Trisilicate, hydrate 39365-87-2 Not available Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available Supplier: Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000. https://www.spectrumchemical.com Order Online At: Chemtrec 1-800-424-9300 Emergency telephone number Contact Person: Martin LaBenz (West Coast) Ibad Tirmiz (East Coast) Contact Person:

2. HAZARDS IDENTIFICATION

Classification

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

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

Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Magnesium Trisilicate	39365-87-2	100

	4. FIRST AID	MEASURES	
First aid measures			
General Advice:		Center in the United States can provide assistance if you ncy and need to talk to a poison specialist. Call	
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.		
Eye Contact:	Flush eyes with water for persist, call a physician.	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 breathing is difficult, give oxygen. In case of shortness of breath, give oxygen. Obtain 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 eff	ects, both acute and delaye	ed	
Symptoms	May cause eye/skin/respiratory tract irritation. May cause diarrhea. It may affect the kidneys.		
Indication of any immediate medio	al attention and special tre	atment needed	
Notes to Physician:	Treat symptomatically.		
Protection of first-aiders First-Aid Providers: Avoid exposure contaminated clothing and equipmer	to blood or body fluids. Wea It as bio-hazardous waste.	r gloves and other necessary protective clothing. Dispose of	
	5. FIRE-FIGHTI	NG MEASURES	
<u>Extinguishing Media</u> Suitable Extinguishing Media:		The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.	

Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	No information available.
Specific hazards:	No information available.
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)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.
Environmental precautions	No information available.
Methods and material for contain	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. Do not ingest. Do not breathe dust. 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:

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

Incompatible Materials:

Strong oxidizing agents Mineral acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Magnesium Trisilicate	39365-87-2	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Magnesium Trisilicate	39365-87-2	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Magnesium Trisilicate	39365-87-2	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:	Safety glasses with side-shields or Goggles		
Skin and body protection:	Long sleeved clothing Chemical resistant apron 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 immediately after handling the product. W		
9	. PHYSICAL AND CHEMICAL PROPE	ERTIES	
Physical state: Solid	Appearance: Powder.	Color: White.	
Odor: Odorless.	Taste Tasteless.	Formula: 2MgO.3SiO2.xH2O	
Molecular/Formula weight: 260.86 + xH2O	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): No information available	Decomposition temperature(°C/°F): No information available	
Boiling point/range(°C/°F): No information available	Bulk density: No information available	Density (g/cm3): No information available	
Specific gravity: No information available	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):	Partition coefficient		
Product code: MA140	Product name: MAGNESIUM TRISILICATE, POWDER, USP	4 / 10	

No information available

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

Miscibility:

No information available

Solubility: Insoluble in water

10. STABILITY AND REACTIVITY

Reactivity No information available

Chemical stabilityStable under recommended storage conditions.Stability:Stable under recommended storage conditions.Possibility of Hazardous Reactions:Hazardous polymerization does not occurConditions to avoid:Incompatible materials.Incompatible Materials:Strong oxidizing agents
Mineral acidsHazardous decomposition
products:No information available.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.

Acute Toxicity

Component Information

Magnesium Trisilicate			
CAS-No.	39365-87-2		
LD50/oral/rat = No information	available		
LD50/oral/mouse = No information	ation available		
LD50/dermal/rabbit = No infor	LD50/dermal/rabbit = No information available		
LD50/dermal/rat = No information available			
LC50/inhalation/rat = No infor	LC50/inhalation/rat = No information available		
LC50/inhalation/mouse = No infomation available			
Other LD50 or LC50information = No information available			

Product Information

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No inf	ormation available			
LD50/dermal/rabbit VALUE-Acute Tox Dermal = No	o information available			
LD50/dermal/rat VALUE -Acute Tox Dermal = N	o information available			
LC50/inhalation/rat VALUE-Vapor = No information VALUE-Gas = No information av VALUE-Dust/Mist = No information	railable			
LC50/Inhalation/mouse VALUE-Vapor = No information VALUE - Gas = No information a VALUE - Dust/Mist = No information	available			
<u>Symptoms</u>				
Skin Contact:	May cause skin irritation.			
Eye Contact:	May cause eye irritation.			
Inhalation	May cause irritation of respiratory tract.			
Ingestion	May cause diarrhea.			
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 affect the kidneys.			
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
Magnesium Trisilicate	39365-87-2	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		

Product code: MA140

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
i orolotorioo ana aogradability.	
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
Magnesium Trisilicate	39365-87-2	None	None	None	None

14. TRANSPORT INFORMATION

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
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

Product name: MAGNESIUM TRISILICATE, POWDER, USP

Description:	No information available
ADR UN-No: Proper Shipping Name: Hazard Class: Packing Group: Subsidiary Risk:	Not Regulated No information available No information available No information available No information available
IMO / IMDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant	Not Regulated No information available No information available No information available No information available No information available
RID UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available
ICAO UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available
IATA UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available

15. REGULATORY INFORMATION

No information available

No information available

International Inventories

Special Provisions

ERG Code:

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Magnesium Trisilicate	39365-87-2	Not Listed	Present KE-22748	Not present	Not present	Present	Present	Not present

U.S. Regulations

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

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

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

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
		-		Reproductive	Reproductive
				Toxicity	Toxicity:
Magnesium Trisilicate	39365-87-2	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
Magnesium Trisilicate	39365-87-2	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	
Magnesium Trisilicate	39365-87-2	Not Applicable	Not Applicable

Canada

WHMIS 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)
Magnesium Trisilicate	39365-87-2	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Magnesium Trisilicate	39365-87-2	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Magnesium Trisilicate	39365-87-2	Not listed

EU Classification

R-phrase(s)

none

S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Magnesium Trisilicate	39365-87-2		No information	

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

Indication of danger:

Not dangerous

16. OTHER INFORMATION

Preparation Date:	3/7/2017
Revision Date:	3/7/2017
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



Manufacturer

Product Covered: MA140, Magnesium Trisilicate, Powder, USP

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 Director of Technical Services techservices@spectrumchemical.com



CERTIFICATE OF REGISTRATION

This is to certify that the quality management system of:

Spectrum Chemicals and Laboratory Products, Inc.

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

Additional sites:13915 South Main Street, Los Angeles, California, 90061, USA

769 Jersey Avenue, New Brunswick, New Jersey, 08901, USA
755 Jersey Avenue, New Brunswick, New Jersey, 08901, USA
777 Jersey Avenue, New Brunswick, New Jersey, 08901, USA
400 N. Oracle, Suite 221, Tucson, Arizona, 85704, USA, USA

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

ISO 9001:2015

The quality management system is applicable to:

Main Site: 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. **Certificate Number:** 94-316m-03

Initial Certification Date: 27 December 1994

Certificate Issue Date: 31 July 2017

Certificate Expiry Date: 28 January 2019



Authorized Signature Calin Moldovean President Business Assurance

Intertek Testing Services NA, Inc. dba Intertek 900 Chelmsford Street, Lowell, MA, USA





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



APPENDIX TO CERTIFICATE OF REGISTRATION

This appendix identifies the locations by the management system of

Spectrum Chemicals and Laboratory Products, Inc.

755 and 769 Jersey Avenue: 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.

777 Jersey Avenue: The manufacture and distribution of specialty fine chemicals, solutions, equipment, supplies and products for Compounding Pharmacies.

7400 N. Oracle: 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.





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.

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



管理体系认证 注册证书

兹证明,以下组织:

斯百全化学(上海)

有限公司

上海市松江区申港路3802弄A20

的管理体系,符合以下标准要求并予以注册:

ISO 9001:2015

此管理体系适用于:

药用辅料销售,化学品销售

统一社会信用代码: 91310000777627048K

证书编号: 111310001

首次认证日期: 2015年11月17日

认证决定日期: 2017年12月26日

签发日期: 2017年12月26日

有效期至: 2018年11月10日



Calin Moldovean President, Business Assurance

Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited 是 UKAS 认可的认证机构 , 注册号为 014



对于此证书的签署,Intertek仅对获证组织承担认证协议所规定的义务,而不对其他组织承担任何义务。此证书的有效性基于获证组织能够依照Intertek的体系认证要求使其体系得 到保持。可通过电子邮件certificate.validation@intertek.com或用智能手机扫描该代码对证书有效性进行确认。此证书的所有权归属为Intertek,在必要时证书持有者应按要求归还 证书。



CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Spectrum China Ltd.

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

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

Sales for Pharmaceutical Excipients, Sales for Chemicals

Unified Social Credit Identifier: 91310000777627048K

Certificate Number: 111310001

Initial Certification Date: 17 November 2015

Date of Certification Decision: 26 December 2017

Issuing Date: 26 December 2017

Valid Until: 10 November 2018



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

The annual validity of the certificate can also be checked through the website http://www.cnca.gov.cn of CNCA in China.



April 12, 2018

Certification of Compliance with current Good Manufacturing Practices

Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies 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 and parts 110 and 111 of the Code of Federal Regulations, respectively.

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

Spectrum Gardena, California: Spectrum New Brunswick, New Jersey: 2020632 2246824

Thank you for your interest in Spectrum products. Please feel free to contact me at 310-516-8000, extension 5610 or via email at <u>mdang@spectrumchemical.com</u> if I may be of further assistance.

Sincerely,

Michael Dang Director, Quality Systems & GMP Compliance

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132

WEST COAST FACILITY

14422 South San Pedro Street Gardena, California 90248 PHONE 310.516.8000 FAX 310.516.9843



July 24, 2018

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	
MA140	Magnesium Trisilicate, Powder, 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: Spectrum-New Brunswick, NJ: Spectrum-Shanghai, China: 2020632 2246824 03006174778

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,

Oulu Clony

Oralia Chavez Quality Assurance Specialist



May 17, 2016

Re: Magnesium Trisilicate, Powder, USP- MA140

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

Magnesium Trisilicate, Powder, USP- MA140

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



May 13, 2016

Re: Magnesium Trisilicate, Powder, USP- MA140

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 SO₂; Lupin; Tree nuts; Mollusks; Wheat; Peanuts; Soy; Cereals containing Gluten; Celery; Mustard; Sesame Seed).

Magnesium Trisilicate, Powder, USP- MA140

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 13, 2016

Re: Magnesium Trisilicate, Powder, USP- MA140

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.

Magnesium Trisilicate, Powder, USP- MA140

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

Spectrum®

Certificate Of Analysis

Item Number	MA140	Lot Number	2GH0551
Item	Magnesium Trisilicate, Powder, USP		
CAS Number	39365-87-2		
Molecular Formula	2MgO.3SiO ₂ .xH ₂ O	Molecular Weight	260.86 + XH2O

Test	Speci	fication	Result
	min	max	
ASSAY (MgO)	20.0 %		21.9 %
ASSAY (SiO ₂)	45.0 %		48.8 %
WATER DETERMINATION	17.0	34.0 %	27.2 %
ACID-CONSUMING CAPACITY (0.1N HCl/g)	140	160 ml	147 ml
RATIO (Si02:MgO)	2.10	2.37	2.23
SOLUBLE SALTS		1.5 %	0.8 %
CHLORIDE (CI)		0.055 %	<0.055 %
SULFATE		0.5 %	0.3 %
FREE ALKALI		TO PASS TEST	PASSES TEST
ARSENIC (As)		8 ppm	<8 ppm
ELEMENTAL IMPURITIES:			
LEAD (Pb)	AS REPORTED		0.2 μg/g
IDENTIFICATION		TO PASS TEST	PASSES TEST
CERTIFIED KOSHER			CERTIFIED KOSHER
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			25-MAY-2019
DATE OF MANUFACTURE			26-MAY-2016
APPEARANCE			WHITE POWDER
RESIDUAL SOLVENTS		TO PASS TEST	NO RESIDUAL SOLVENTS USED

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ



Certificate Of Analysis Results Certified by

Ibad Tirmizi Director of Quality Spectrum Chemical Mfg. Corp.

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.

Spectrum®

Certificate Of Analysis

Item Number	MA140	Lot Number	1GG0035
Item	Magnesium Trisilicate, Powder, USP		
CAS Number	39365-87-2		
Molecular Formula	2MgO.3SiO ₂ .xH ₂ O	Molecular Weight	260.86 + XH2O

Test	Speci	Specification	
	min	max	
ASSAY (MgO)	20.0 %		21.3 %
ASSAY (SiO ₂)	45.0 %		48.1 %
WATER DETERMINATION	17.0	34.0 %	28.6 %
ACID-CONSUMING CAPACITY (0.1N HCl/g)	140	160 ml	149 ml
RATIO (Si02:MgO)	2.10	2.37	2.26
SOLUBLE SALTS		1.5 %	0.7 %
CHLORIDE (CI)		0.055 %	<0.005 %
SULFATE		0.5 %	0.2 %
FREE ALKALI		TO PASS TEST	PASSES TEST
ARSENIC (As)		8 ppm	<8 ppm
HEAVY METALS (as Pb)		0.003 %	<0.003 %
IDENTIFICATION		TO PASS TEST	PASSES TEST
CERTIFIED KOSHER			CERTIFIED KOSHER
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			17-AUG-2019
DATE OF MANUFACTURE			18-AUG-2016
APPEARANCE			WHITE POWDER
RESIDUAL SOLVENTS		TO PASS TEST	NO RESIDUAL SOLVENTS USED

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

Certificate of Analysis Results Certified By:

Adan Hernandez Quality Control Manager Spectrum Chemicals & Laboratory Products

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.





GREEN: General Storage

BLUE: Health Hazard 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.

 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 	CAUTION: For manufacturing, processing or repacking. Read and understand the label and Safety Data Sheet (SDS) prior to use.	Assay (Mg0) Min. 20.0 (SiO ₂) Water Min. 45.0 Water 17.0-34.0 Acid-Consuming Capacity (0.1N HCl/g) 140-160 Ratio (SiO ₂ :Mg0) 2.10-2. MAXIMUM LIMITS 2.10-2. Soluble Salts 1.1.5 Chloride 0.055 Sulfate 0.2.5 Free Alkali To pass the Arsenic Heavy Metals 0.000 Residual Solvents To pass the VARNING: This product contains a chemical known to the St of California to cause cancer. WARNING: This product contains a chemical known to the St of California to cause birth defects or other reproductive harm
	Chemical Emergency: (800)424-9300 www.SpectrumChemical.com	HYGROSCOPIC: Keep tightly closed.
SPECTRUM CHEMICAL I	www.SpectrumChemical.com	
SPECTRUM CHEMICAL I SPECTRUM CHEMICAL I	www.SpectrumChemical.com	G 6/E7GHS A Lot No. 06223 248 • New Brunswick, NJ 08901 & Empirical Formula, Formula
 A Bar Code B GHS Hazard Pictograms 	www.SpectrumChemical.com MFG. CORP. Gardena, CA 90 Size/Quantity Chemical Abstracts Service	G 6/E7GHS A Lot No. 06223 248 • New Brunswick, NJ 08901
A Bar Code	www.SpectrumChemical.com MFG. CORP. Gardena, CA 90 Size/Quantity Chemical Abstracts Service	G 6/E7GHS A Lot No. 06223 248 • New Brunswick, NJ 08901 Empirical Formula, Formula Weight and Technical
 A Bar Code B GHS Hazard Pictograms Warning, Safety Data and Precautional 	www.SpectrumChemical.com MFG. CORP. Gardena, CA 90 Size/Quantity Chemical Abstracts Service (CAS) Registry Number	G 6/E7GHS A Lot No. 06223 248 • New Brunswick, NJ 08901 Empirical Formula, Formula Weight and Technical Specifications Panel

I his color-coded band indicates the hazard most likely to be posed by that material under storage conditions. The criteria used to assign band colors have been established by the Storage Code working group of the Society for Chemical Hazard Communication (SCHC). It is recommended that like colors be stored together, unless otherwise stated, based on the color codes indicated to the right. However, it is the responsibility of the customer to check with their local fire department for possible conflicts with our recommendations when storing hazardous chemicals.

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



June 15, 2018

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 928th 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 706th 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 Jan

Michael Dang Director, Quality Systems & GMP Compliance mdang@spectrumchemical.com



Stability – Shelf Life Guidance

Product Covered: MA140, Magnesium Trisilicate, Powder, USP

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

The product, MA140, Magnesium Trisilicate, Powder, USP, is assigned a 36 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

fan & //and

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



בס"ד Mar 06, 2017

The following product(s) prepared by the named company are certified kosher with the stated requirements:

Spectrum Laboratory Products, Inc.

S-0032

14422 S. San Pedro Street Gardena CA 90248	Product Name	Magnesium Trisilicate, Powder, USP - MA140
USA	Brand	Spectrum
	UKD-ID	KSAV3-J2G0I3
	D/P/M	Ρ
	Symbol Required	KSA
This certificate expires on Feb 01, 2018	Special Conditions	

Rabbi Binyomin Lisbon Kashrus Administrator

Placing the KSA logo on products not listed above constitutes an un-authorized use of the KSA symbol, which is a federally registered trademark.



شهادة حلال IFANCA HALAL PRODUCT CERTIFICATE

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: September 05, 2017 Document #: 11205.11523.II170442

Company Name & Address: Plant Name & Address:	Spectrum Laboratory P Spectrum Laboratory P	Products, Inc. 769- Jersey Avenue New Brunswick, Products, Inc. 755 Jersey Avenue New Brunswick, N	New Jersey 08901 USA	ent #: 11205.11523.11170442
Product Name		Product Code	Halal-ID	Product Certificate #
Magnesium Trisilicate, Powder,	USP	MA140 R	B94018	HC-17SP8Y97
Mahammet Hurin Chaudy Muhammad Munir Chaudry Ph. President	D.	This certificate is valid until August 31, 2018 a	nd subject to renewal at that Page 1	

MEMBER