

Scientific Documentation

Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED (TM)

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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Product Specification Certificate of Analysis Safety Data Sheet (SDS) Certification of Current Good Manufacturing Practices (cGMP) Manufacturing Process Flowchart Technical Statements Elemental Impurities Statement Residual Solvents Statement General Label Information – Sample Label



Specification for Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED (TM) (A9400)

Item Number	A9400
Item	Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED (TM)
CAS Number	7783-20-2
Molecular Formula	$(NH_4)_2SO_4$
Molecular Weight	132.14
MDL Number	
Synonyms	Sulfuric Acid Diammonium Salt

Test	S	pecification
	Min	Max
APPEARANCE		
ASSAY $[(NH_4)_2SO_4]$	99.0	100.5 %
pH OF A 5% SOLUTION @ 25°C	5.0	6.0
INSOLUBLE MATTER		0.005 %
RESIDUE AFTER IGNITION		0.005 %
CHLORIDE (Cl)		5 ppm
NITRATE (NO ₃)		0.001 %
PHOSPHATE (PO ₄)		5 ppm
HEAVY METALS (by ICP-OES)		5 ppm
IRON (Fe)		5 ppm
ELEMENTAL IMPURITIES		AS REPORTED
MICROBIAL LIMITS		
ТАМС		1000 CFU/g
ТҮМС		10 CFU/g
ENDOTOXINS		10 IU/g
IDENTIFICATION		TO PASS TEST
EXPIRATION DATE		
DATE OF MANUFACTURE		
RESIDUAL SOLVENTS		AS REPORTED

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	A9400	Lot Number	4MI0081
Item	Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED (TM)	CAS Number	7783-20-2
Molecular Formula	(NH ₄) ₂ SO ₄	Molecular Weight	132.14

тгст	SPECIFICATION		
TEST	MIN	MAX	RESULT
APPEARANCE			SMALL WHITE CRYSTALS
ASSAY [(NH ₄) ₂ SO ₄	99.0	100.5 %	99.4 %
pH OF A 5% SOLUTION @ 25°C	5.0	6.0	5.08
INSOLUBLE MATTER		0.005 %	0.002 %
RESIDUE AFTER IGNITION		0.005 %	<0.005 %
CHLORIDE (CI)		5 ppm	< 5 ppm
NITRATE (NO ₃)		0.001 %	<0.001 %
PHOSPHATE (PO ₄)		5 ppm	< 5 ppm
HEAVY METALS (by ICP-OES)		5 ppm	0.2 ppm
IRON (Fe)		5 ppm	< 5 ppm
ELEMENTAL IMPURITIES		AS REPORTED	COMPLIES WITH STANDARD
MICROBIAL LIMITS			
ТАМС		1000 CFU/g	<1000 CFU/g
ТҮМС		10 CFU/g	<10 CFU/g
ENDOTOXINS		10 IU/g	<9.6 IU/g
IDENTIFICATION		TO PASS TEST	PASSES TEST
EXPIRATION DATE			15-MAY-2027
DATE OF MANUFACTURE			15-MAY-2022
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT
MONOGRAPH EDITION			USP 2023

Certificate of Analysis Results Entered By:

MCAMACHO Matheu Camacho 07-DEC-23 05:59:30

Spectrum Chemical Mfg Corp 777 Jersey Avenue New Brunswick 08901 NJ



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.

Certificate of Analysis Results Approved By:

GHERRERA Genaro Herrera 07-DEC-23 09:40:53

SAFETY DATA SHEET spectrum®

Revision date 10-November-2022

1. Identification		
Product identifier		
Product Name	AMMONIUM SULFATE, USP, ACS, PYROGEN FREE, bioCERTIFIED™	
Other means of identification		
Product Code(s)	A9400	
Synonyms	None	
Recommended use of the chemica	l and restrictions on use	
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Emergency telephone number		
Emergency Telephone	Chemtrec 1-800-424-9300	

2. Hazard(s) identification

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Hazard statements

Causes skin irritation Causes eye irritation







Physical state Solid

Odor No information available

Precautionary Statements - Prevention

Wear protective gloves Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water Take off contaminated clothing and wash it before reuse If skin irritation occurs: Get medical advice/attention

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

Other information

May be harmful if swallowed. Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

3. Composition/information on ingredients

Substance

Chemical name	CAS No	Weight-%
Ammonium Sulfate	7783-20-2	100

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	If it is involved in a fire the following can be released:. Sulfur oxides. Ammonia. Nitrogen oxides (NOx).
Explosion data Sensitivity to mechanical impac	ct none.
Sensitivity to static discharge	none.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
6 Appidental release mag	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage	
Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
Conditions for safe storage, including any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.	
Appropriate engineering controls		
Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles). None required for consumer use.	
Hand protection	Wear suitable gloves. Impervious gloves.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.	

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical stateSolidAppearanceCrystals or Crystalline powderColorColorless to WhiteOdorNo information available	
Color Colorless to White Odor No information available	
Odor No information available	
••••	
Odor threshold No information available	
Property Values Remarks • Met	hod
pH 5.0-6.0 at 132g/l @ 25°C None known	liou
Melting point / freezing point 280 °C / 536 °F None known	
Boiling point / boiling rangeno data availableNone knownFlash pointno data availableNone known	
Flammability (solid, gas) no data available None known	
Flammability Limit in Air None known	
Upper flammability or explosive No data available	
limits	
Lower flammability or explosive No data available	
limits	
Vapor pressure No data available None known	
Vapor density no data available None known	
Relative density1.8None known	
Water solubility Soluble in water None known	
Solubility(ies) Insoluble in Ethanol None known	
Insoluble in Acetone	
Partition coefficient No data available None known	
Autoignition temperature no data available None known	
Decomposition temperature >280 - °C °F None known	
Kinematic viscosity no data available None known	
Dynamic viscosity No data available None known	

Other information

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information		
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.	
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes eye irritation.	
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).	
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics		

Symptoms Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

Unknown acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Sulfate 7783-20-2	= 2840 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

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

Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity Classification based on data available for ingredients. Irritating to skin. Classification based on data available for ingredients. Irritating to eyes. No information available. No information available.

Reproductive toxicity	No information available.
STOT - single exposure STOT - repeated exposure Aspiration hazard	No information available. No information available. No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information

Ecotoxicity	Harmful to ac	quatic life with long lasting	effects.	
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ammonium Sulfate	-	LC50: 123 - 128mg/L	-	LC50: =14mg/L (48h,
7783-20-2		(96h, Poecilia reticulata)		Daphnia magna) EC50:
		LC50: 32.2 - 41.9mg/L		=423mg/L (24h, Daphnia
		(96h, Oncorhynchus		magna)
		mykiss) LC50: 460 -		
		1000mg/L (96h,		
		Leuciscus idus) LC50:		
		5.2 - 8.2mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =126mg/L (96h,		
		Poecilia reticulata) LC50:		
		=18mg/L (96h, Cyprinus		
		carpio) LC50: =250mg/L		
		(96h, Brachydanio rerio)		
		LC50: =420mg/L (96h,		
		Brachydanio rerio) LC50:		
		=480mg/L (96h,		
		Brachydanio rerio) LC50:		
		>100mg/L (96h,		
		Pimephales promelas)		

Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

Component Information

Chemical name	Partition coefficient
Ammonium Sulfate 7783-20-2	-5.1

Other adverse effects

No information available.

13. Disposal considerations Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. Transport information

TDG	not regulated
MEX	not regulated
ICAO (air)	not regulated
IATA	not regulated
IMDG_	not regulated
RID	not regulated
ADR	not regulated
ADN	not regulated

15. Regulatory information

International Inventories

TSCA	Complies
DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS	Complies Complies This product complies with ENCS: This product complies with China: Complies Complies All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Ammonium Sulfate - 7783-20-2	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level

pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

nnsylvania
mental hazard

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and chemical properties -HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TŴĂ TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL Ceiling Maximum limit value Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date	10-November-2022
Revision Note	No information available.

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

spectrum

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
A9400	Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED ™

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>

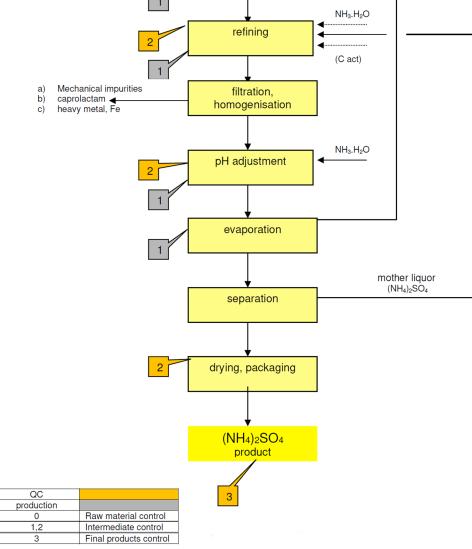
Sincerely,

Oulu Clony

Oralia Chavez Quality Assurance Specialist



Manufacturing Process Flowchart Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED ™ (Cat# A9400)



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

AN ISO 9001:2015 REGISTERED COMPANY

A9400, Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED ™

Source Statement

The above mentioned catalog item is manufactured by chemical synthesis. No animal or plant 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

spectrum

- 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 above mentioned catalog item 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

spectrum®

RE: Elemental Impurities - Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED ™ (Cat# A9400)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. The following elemental impurities are likely to be present:

Elemental Impurity		Class	Expected Concentration
Silver	Ag	2B	< 7.5 ppm
Lithium	Li	3	< 27.5 ppm

Other elemental impurities considered by USP <232>, <233> and ICH Q3D which are not addressed in the above mentioned table are not likely to be present. These substances are not used in the production process, are not intentionally added or known to be present in the above mentioned material.

This information is subject to change and is intended for risk assessment only. It is responsibility of the end user to evaluate suitability of any chemical for the intended use as well as to assess compound-specific limits of daily intake of metal impurities. For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <u>TechServices@spectrumchemical.com</u>.

Sincerely,

Technical Services Spectrum Chemical Mfg. Corp.

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

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

AN ISO 9001:2015 REGISTERED COMPANY



RE: Residual Solvents - Ammonium Sulfate, USP, ACS, Pyrogen Free, bioCERTIFIED ™ (Cat# A9400)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned catalog item complies with the requirements of the USP <467> Residual Solvents and the ICH Q3C Residual Solvents Guideline. No Class 1, Class 2, Class 3 or other solvents are used or produced in the manufacture of this product.

For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <u>TechServices@spectrumchemical.com</u>.

Sincerely,

Technical Services Spectrum Chemical Mfg. Corp.

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

AN ISO 9001:2015 REGISTERED COMPANY

spectrum®

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.

	Spectrum®	Not sterile.	
* • Causes skin and eye irritation • May be	A9400-0 I KG		00.0-100.5%
 harmful if swallowed. Wear protective gloves • Wash face, hands 		Assay [(NH ₄) ₂ SO ₄] pH of a 5% Solution @ 25°C	5 0-6 0
and any exposed skin thoroughly after handling.	Ammonium Sulfate	MAXIMUM LIN	NITS
FIRST AID: IF IN EYES: Rinse cautiously with		Insoluble Matter Residue After Ignition	
water for several minutes. Remove contact	(Sulfuric Acid Diammonium Salt)	Chloride (Cl)	
∾ lenses, if present and easy to do. Continue ∞ rinsing. If eye irritation persists: Get medical	🕒 USP, ACS, Pyrogen Free, 🍳	Nitrate (NO ₂)	0.001%
O attention IF ON SKIN: Wash with plenty of		Phosphate (PO)	5 ppm
water. Take off contaminated clothing and	⊎ bioCERTIFIED™ bio	Heavy Metals (by ICP-OES)	5 ppm
📕 🚽 wash it before reuse. If skin irritation occurs:	G CAS 7783-20-2 CERTIFIED	Iron (Fe) Elemental Impurities	
Get medical attention.	CAUTION: For manufacturing, processing or	Residual Solvents	
KEEP FROM CHILDREN	repacking. Further processing and testing required	Microbial Limits:	
	for use in parenteral applications.	TAMC	
Concer and Depreductive Horm	Read and understand the label and Safety Data	TYMC	
* www.P65Warnings.ca.gov	Sheet (SDS) prior to use.	Endotoxins	IU IU/g
* ************************************	Chemical Emergency: (800)424-9300		No 062222
	www.SpectrumChemical.com	g 1/K10GHS A O LOt 8 • New Brunswick, NJ 0	No. 062233 8901
SPECTRUM CHEMICAL	www.SpectrumChemical.com MFG. CORP. Gardena, CA 9024 Chemical Abstracts Service	_	8901
	www.SpectrumChemical.com . MFG. CORP. Gardena, CA 9024	8 • New Brunswick, NJ 0	8901 ormula Weight a
Bar Code GHS Hazard Pictograms	www.SpectrumChemical.com MFG. CORP. Gardena, CA 9024 Chemical Abstracts Service (CAS) Registry Number	8 • New Brunswick, NJ 0 Empirical Formula,	8901 ormula Weight a ons Panel
Bar Code GHS Hazard Pictograms Warning, Safety Data and Precautionary	www.SpectrumChemical.com MFG. CORP. Gardena, CA 9024 Chemical Abstracts Service	 8 • New Brunswick, NJ 0 K Empirical Formula, Form	8901 ormula Weight a ons Panel
Bar Code GHS Hazard Pictograms Warning, Safety Data and Precautionary Information	www.SpectrumChemical.com MFG. CORP. Gardena, CA 9024 Chemical Abstracts Service (CAS) Registry Number	8 • New Brunswick, NJ 0 Empirical Formula,	8901 ormula Weight a ons Panel
Bar Code GHS Hazard Pictograms Warning, Safety Data and Precautionary	 www.SpectrumChemical.com MFG. CORP. Gardena, CA 9024 Chemical Abstracts Service (CAS) Registry Number Caution Information DOT Shipping Information 	 New Brunswick, NJ 0 Empirical Formula, F Technical Specificati Expiration Informatio Lot Number 	8901 ormula Weight a ons Panel n
Bar Code GHS Hazard Pictograms Warning, Safety Data and Precautionary Information Product Catalog Number	 www.SpectrumChemical.com MFG. CORP. Gardena, CA 9024 Chemical Abstracts Service (CAS) Registry Number Caution Information DOT Shipping Information Toll-Free 24-Hour Chemical 	 8 • New Brunswick, NJ 0 & Empirical Formula, Formula, Formula, Formula, Formula, Formula, Formula, Specificati 1 Expiration Informatio M Lot Number M Kosher Certified by K 	8901 ormula Weight a ons Panel n
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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

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