

## **Scientific Documentation**

# Sodium Acetate, Trihydrate, USP, EP, JP, FCC, 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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# Specification for Sodium Acetate, Trihydrate, USP, EP, JP, FCC, bioCERTIFIED (TM) (S9000)

| Item Number       | S9000   |
|-------------------|---|
| Item              | Sodium Acetate, Trihydrate, USP, EP, JP, FCC, bioCERTIFIED (TM)   |
| CAS Number        | 6131-90-4   |
| Molecular Formula | NaC <sub>2</sub> H <sub>3</sub> O <sub>2</sub> •3H <sub>2</sub> O |
| Molecular Weight  | 136.08  |
| MDL Number        |   |
| Synonyms          |   |

| Test  | S    | Specification    |  |  |
|---|------|------------------|--|--|
|   | Min  | Max              |  |  |
| Assay (C <sub>[2]H]3]NaO]2]: Dried Basis, USP, EP, FCC)</sub> | 99.0 | 101.0 %          |  |  |
| Assay (C <sub>]2]H]3]NaO]2]; Dried Basis, JP)</sub>           | 99.5 | 101.0%           |  |  |
| Loss on Drying, EP  | 39.0 | 40.5 %           |  |  |
| Loss on Drying, FCC   | 36.0 | 41.0 %           |  |  |
| Loss on Drying, JP  | 39.0 | 40.5 %           |  |  |
| Loss on Drying, USP   | 38.0 | 41.0 %           |  |  |
| pH of a 3% Solution @ 25°C, USP                               | 7.5  | 9.2              |  |  |
| pH of a 5% Solution @ 20°C, EP                                | 7.5  | 9.0              |  |  |
| Alkalinity (as Na <sub>[2]CO]3], FCC</sub>                    |      | 0.05 %           |  |  |
| Clarity and Color of Solution, JP, EP                         |      | Clear, colorless |  |  |
| Lead, FCC   |      | 2 mg/kg          |  |  |
| Arsenic, JP   |      | 2 ppm            |  |  |
| Heavy Metals, JP  |      | 2 ppm            |  |  |
| Potassium Compounds, FCC                                      |      | TO PASS TEST     |  |  |
| Potassium, USP  |      | TO PASS TEST     |  |  |
| Reducing Substances, EP                                       |      | TO PASS TEST     |  |  |
| Potassium Permanganate Reducing Substances, JP                |      | TO PASS TEST     |  |  |
| Insoluble Matter, USP   |      | 0.05 %           |  |  |
| Chloride, EP  |      | 200 ppm          |  |  |

| Test                       | Sp  | pecification |
|----------------------------|-----|--------------|
|                            | Min | Max          |
| Chloride, USP              |     | 350 ppm      |
| Chloride, JP               |     | 0.011 %      |
| Acidity or Alkalinity, JP  |     | TO PASS TEST |
| Sulfate, JP                |     | 0.017 %      |
| Sulfates, EP               |     | 200 ppm      |
| Sulfate, USP               |     | 50 ppm       |
| Calcium and Magnesium, USP |     | TO PASS TEST |
| Calcium and Magnesium, JP  |     | TO PASS TEST |
| Calcium and Magnesium, EP  |     | 50 ppm       |
| POTASSIUM (K)              |     | TO PASS TEST |
| ELEMENTAL IMPURITIES       |     | AS REPORTED  |
| IDENTIFICATION             |     | TO PASS TEST |
| EXPIRATION DATE            |     |              |
| DATE OF MANUFACTURE        |     |              |
| APPEARANCE                 |     |              |
| RESIDUAL SOLVENTS          |     | AS REPORTED  |

#### Spectrum Chemical Mfg Corp

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

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## **Certificate Of Analysis**

| Item Number       | S9000   | Lot Number       | 4LK0046   |
|-------------------|---|------------------|-----------|
| Item              | Sodium Acetate, Trihydrate, USP, EP, JP, FCC, bioCERTIFIED (TM)   | CAS Number       | 6131-90-4 |
| Molecular Formula | NaC <sub>2</sub> H <sub>3</sub> O <sub>2</sub> •3H <sub>2</sub> O | Molecular Weight | 136.08    |

| TECT   | SPECIFICATION |                  | DECLUIT.          |
|--|---------------|------------------|-------------------|
| TEST   | MIN           | MAX              | RESULT            |
| Assay ( $C_2H_3NaO_2$ ; Dried Basis, USP, EP, FCC)                       | 99.0          | 101.0 %          | 100.7 %           |
| Assay (C <sub>2</sub> H <sub>3</sub> NaO <sub>2</sub> ; Dried Basis, JP) | 99.5          | 101.0%           | 99.9 %            |
| Loss on Drying, EP   | 39.0          | 40.5 %           | 39.6 %            |
| Loss on Drying, FCC  | 36.0          | 41.0 %           | 37.7 %            |
| Loss on Drying, JP   | 39.0          | 40.5 %           | 39.5 %            |
| Loss on Drying, USP  | 38.0          | 41.0 %           | 39.4 %            |
| pH of a 3% Solution @ 25°C, USP  | 7.5           | 9.2              | 8.702             |
| pH of a 5% Solution @ 20°C, EP   | 7.5           | 9.0              | 8.438             |
| Alkalinity (as Na <sub>2</sub> CO <sub>3</sub> , FCC                     |               | 0.05 %           | 0.05 %            |
| Clarity and Color of Solution, JP, EP                                    |               | Clear, colorless | CLEAR , COLORLESS |
| Lead, FCC  |               | 2 mg/kg          | <0.05 mg/kg       |
| Arsenic, JP  |               | 2 ppm            | <0.05 ppm         |
| Heavy Metals, JP   |               | 2 ppm            | <2 ppm            |
| Potassium Compounds, FCC   |               | TO PASS TEST     | PASSES TEST       |
| Potassium, USP   |               | TO PASS TEST     | PASSES TEST       |
| Reducing Substances, EP  |               | TO PASS TEST     | PASSES TEST       |
| Potassium Permanganate Reducing<br>Substances, JP                        |               | TO PASS TEST     | PASSES TEST       |
| Insoluble Matter, USP  |               | 0.05 %           | 0.05 %            |
| Chloride, EP   |               | 200 ppm          | <200 ppm          |
| Chloride, USP  |               | 350 ppm          | <350 ppm          |
| Chloride, JP   |               | 0.011 %          | <0.011 %          |
| Acidity or Alkalinity, JP  |               | TO PASS TEST     | PASSES TEST       |
| Sulfate, JP  |               | 0.017 %          | 0.017 %           |
| Sulfates, EP   |               | 200 ppm          | <200 ppm          |

| TECT                       | SPECIFICATION |              | DECLUT                    |
|----------------------------|---------------|--------------|---------------------------|
| TEST                       | MIN           | MAX          | RESULT                    |
| Sulfate, USP               |               | 50 ppm       | <50 ppm                   |
| Calcium and Magnesium, USP |               | TO PASS TEST | PASSES TEST               |
| Calcium and Magnesium, JP  |               | TO PASS TEST | PASSES TEST               |
| Calcium and Magnesium, EP  |               | 50 ppm       | <50 ppm                   |
| POTASSIUM (K)              |               | TO PASS TEST | PASSES TEST               |
| ELEMENTAL IMPURITIES       |               | AS REPORTED  | COMPLIES WITH STANDARD    |
| IDENTIFICATION             |               | TO PASS TEST | PASSES TEST               |
| EXPIRATION DATE            |               |              | 31-MAR-2025               |
| DATE OF MANUFACTURE        |               |              | 01-MAR-2022               |
| APPEARANCE                 |               |              | WHITE CRYSTALLIE POWDER   |
| RESIDUAL SOLVENTS          |               | AS REPORTED  | NO RESIDUAL SOLVENTS USED |
| TAMC                       |               |              | <10 <sup>2</sup> CFU/G    |
| TYMC                       |               |              | <10 <sup>2</sup> CFU/G    |
| ENDOTOXIN                  |               |              | <2.5 EU/G                 |

Certificate of Analysis Results Entered By:

SVANGOOR Swetha Vangoor 20-APR-23 10:50:55

Spectrum Chemical Mfg Corp 777 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

TDAO Tiffany DAO 21-APR-23 07:15:48

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.





Revision date 29-September-2021

Revision Number 1

#### 1. Identification

**Product identifier** 

Product Name SODIUM ACETATE, TRIHYDRATE, USP, EP, JP, FCC, BIOCERTIFIED(TM)

Other means of identification

Product Code(s) S9000

Synonyms None

Recommended use of the chemical 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

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

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Label elements**

#### Hazard statements

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

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Powder Crystalline granules Physical state Solid Odor No information available

#### Other information

No information available.

#### 3. Composition/information on ingredients

#### **Substance**

| Chemical name              | CAS No    | Weight-% | Trade secret |
|----------------------------|-----------|----------|--------------|
| Sodium Acetate, Trihydrate | 6131-90-4 | 100      | *            |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

#### **Description of first aid measures**

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

#### 5. Fire-fighting measures

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.

**Explosion data** 

Sensitivity to mechanical impact 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. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

Methods and material for containment 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.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

#### 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** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

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** Handle in accordance with good industrial hygiene and safety practice.

#### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

Appearance Powder Crystalline granules

Color Colorless; White

Odor No information available
Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

7.5-9.2 (3%-5% solution at 25 deg. C pН None known 58 - 64 °C / 136.4 - 147.2 °F Melting point / freezing point None known Boiling point / boiling range no data available None known Flash point no data available None known **Evaporation rate** no data available None 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

No data available None known Vapor pressure Vapor density no data available None known Relative density no data available None known Water solubility No data available None known Solubility(ies) Soluble in water None known No data available None known Partition coefficient 607 °C / 1124.6 °F **Autoignition temperature** None known 324 °C / 615.2 °F None known **Decomposition temperature** no data available None known Kinematic viscosity Dynamic viscosity No data available None known

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information available

Molecular weight 136.08

VOC Content (%)
Liquid Density
No information available
No information available
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**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

#### 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** 

No information available.

#### **Acute toxicity**

#### **Numerical measures of toxicity**

No information available

#### 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 Reproductive toxicity

No information available. No information available.

No information available.

No information available.

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** The environmental impact of this product has not been fully investigated.

Persistence and degradability

**Bioaccumulation** 

No information available. Inherently biodegradable.

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

DOT not regulated

TDG not regulated

not regulated MEX

not regulated ICAO (air)

not regulated <u>IATA</u>

not regulated **IMDG** 

**RID** not regulated

ADR not regulated

ADN not regulated

#### 15. Regulatory information

#### **International Inventories**

**TSCA** Complies

DSL/NDSL Does not Comply EINECS/ELINCS Does not Comply

ENCS This product complies with ENCS: IECSC This product complies with China:

**KECL** Does not Comply

PICCS Complies

AICS 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### 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**

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

#### 16. Other information

NFPA

Health hazards 0 Flammability 1 Instability 0

Physical and chemical properties -

**HMIS** 

Health hazards 0
Flammability 1
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

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

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 29-September-2021 Revision Note 29-September-2021 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** 



#### 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                                  |
|----------------|---|
| S9000          | Sodium Acetate, Trihydrate, USP, EP, JP, FCC, |
|                | bioCERTIFIED (TM)                             |

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

Spectrum-Gardena, CA: 2020632 Spectrum-New Brunswick, NJ: 2246824

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

Sincerely,

Oralia Chavez

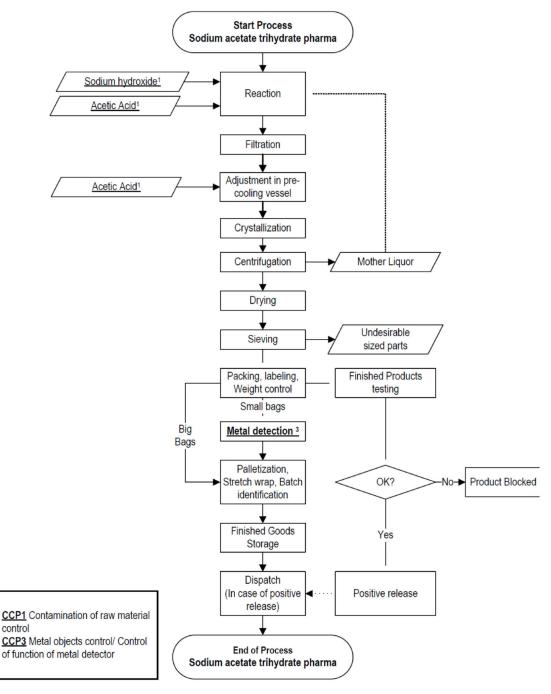
**Quality Assurance Specialist** 

Order Clony



#### **Manufacturing Process Flowchart**

# Sodium Acetate, Trihydrate, USP, EP, JP, FCC, bioCERTIFIED ™ - Cat# S9000



CORPORATE HEADQUARTERS

769 Jersey Avenue

New Brunswick, NJ 08901

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WEST COAST FACILITY

14422 South San Pedro Street

Gardena, California 90248

PHONE 310.516.8000

FAX 310.516.9843



# **\$9000**, Sodium Acetate, Trihydrate, USP, EP, JP, FCC, bioCFRTIFIED ™

#### **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
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

#### **EU Fragrance Allergen Statement**

The above mentioned catalog item complies with the requirements of EC Directive 1223/2009.

#### **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 36 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



## RE: Elemental Impurities - Sodium Acetate, Trihydrate, USP, EP, JP, FCC, bioCERTIFIED ™ - Cat# S9000

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 |
|--------------------|----|-------|------------------------|
| Lithium            | Li | 3     | < 6.25 ppm             |
| Barium             | Ва | 3     | < 17.5 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 <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

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



RE: Residual Solvents - Sodium Acetate, Trihydrate, USP, EP, JP, FCC, bioCERTIFIED ™ - Cat# S9000

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 USP <467> Residual Solvents and ICH Q3C Residual Solvents Guideline. The following solvents are likely to be present:

| Residual Solvent | Class | Expected Concentration |
|------------------|-------|------------------------|
| Acetic Acid      | 3     | < 5000 ppm             |

No Class 1, Class 2 or other solvents are used or produced in the manufacturing process of this material.

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 <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

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

CORPORATE HEADQUARTERS

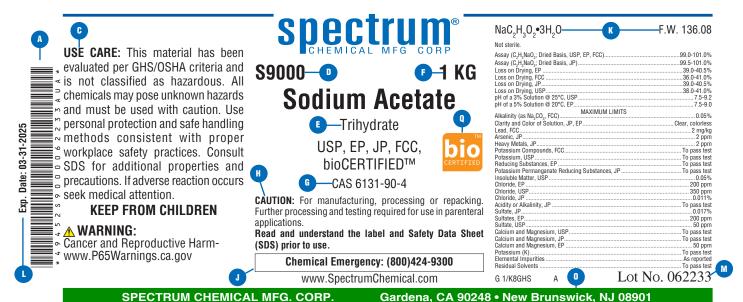
769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY

14422 South San Pedro Street
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PHONE 310.516.8000
FAX 310.516.9843



#### **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.



A Bar Code

GHS Hazard Pictograms

Warning, Safety Data and Precautionary Information

- Product Catalog Number
- Item Name, Form, Grade
- Size/Quantity

- Chemical Abstracts Service (CAS) Registry Number
- Caution Information
- DOT Shipping Information
- Toll-Free 24-Hour Chemical **Emergency Telephone Number**
- Empirical Formula, Formula Weight and Technical Specifications Panel
- Expiration Information
- Lot Number
- Kosher Certified by Kosher Supervision of America (KSA).
- Storage Color Band
- Halal Certified by IFANCA

This 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

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