

# Scientific Documentation

## Glycerin, Natural, USP, EP, BP

Not appropriate for regulatory submission.

Please visit [www.spectrumchemical.com](http://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 Glycerin, Natural, USP, EP, BP (G1016)

Item Number	G1016
Item	Glycerin, Natural, USP, EP, BP
CAS Number	56-81-5
Molecular Formula	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>
Molecular Weight	92.10
MDL Number	
Synonyms	1,2,3-Propanetriol ; Glycerol

Test	Specification	
	Min	Max
APPEARANCE		
ASSAY (ANHYDROUS BASIS)	99.0	101.0%
SPECIFIC GRAVITY @ 25°C	1.249	
APPEARANCE OF SOLUTION	CLEAR AND COLORLESS	
REFRACTIVE INDEX	1.470	1.475
COLOR	NOT DARKER THAN STANDARD	
RESIDUE ON IGNITION (SULPHATED ASH)		0.01%
CHLORIDE (Cl)		10 ppm
SULFATE (SO <sub>4</sub> )		20 ppm
ELEMENTAL IMPURITIES	AS REPORTED	
CHLORINATED COMPOUNDS (HALOGENATED COMPOUNDS as Cl)		30 ppm
CHLORIDE (Cl) E.P		10 ppm
ACIDITY OR ALKALINITY (EP)	COLORLESS <0.2 mL	
WATER		2.0%
FATTY ACIDS AND ESTERS		1 mL
RELATED COMPOUNDS (USP):		
INDIVIDUAL IMPURITIES		0.10 %
TOTAL IMPURITIES		1.0 %

Test	Specification	
	Min	Max
IMPURITY A AND RELATED SUBSTANCES :		
IMPURITY A		0.1 %
TOTAL OF ALL IMPURITIES WITH RETENTION TIME GREATER THAN THE RETENTION TIME OF G		0.5 %
OTHER IMPURITY WITH A RETENTION TIME LESS THAN THE RETENTION TIME OF GLICEROL:		0.1 %
ACIDITY OR ALKALINITY	COLORLESS <0.2 mL	
ALDEHYDES		10 ppm
SUGARS	REMAINS BLUE AND NO PRECIPITATE FORMS	
ESTERS	8.0 mL	
IDENTIFICATION:		
IDENTIFICATION: A USP (FTIR)	SPECTRUM MATCHES REFERENCE	
IDENTIFICATION: B (USP)		0.10 % each
IDENTIFICATION: C (USP)	RETENTION TIME CORRESPONDS TO STANDARD	
IDENTIFICATION : A (EP)	1.470	1.475
IDENTIFICATION : C (EP)	1.258	1.268
CERTIFIED KOSHER		
CERTIFIED HALAL		
MONOGRAPH EDITION		
MONOGRAPH EDITION.		
EXPIRATION DATE		
DATE OF MANUFACTURE		
MANUFACTURER NAME:		
RESIDUAL SOLVENTS	AS REPORTED	

***Spectrum Chemical Mfg Corp***

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<b>Corporate Headquarters:</b>	<b>West Coast Facility:</b>
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	G1016	Lot Number	2NB0113
Item	Glycerin, Natural, USP, EP, BP	CAS Number	56-81-5
Molecular Formula	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	Molecular Weight	92.10

TEST	SPECIFICATION		RESULT
	MIN	MAX	
APPEARANCE			COLORLESS VISCOUS LIQUID
ASSAY (ANHYDROUS BASIS)	99.0	101.0%	99.9 %
SPECIFIC GRAVITY @ 25°C	1.249		1.268
APPEARANCE OF SOLUTION	CLEAR AND COLORLESS		CLEAR AND COLORLESS
REFRACTIVE INDEX	1.470	1.475	1.473
COLOR	NOT DARKER THAN STANDARD		NOT DARKER THAN STANDARD
RESIDUE ON IGNITION (SULPHATED ASH)		0.01%	< 0.01 %
CHLORIDE (Cl)		10 ppm	< 10 ppm
SULFATE (SO <sub>4</sub> )		20 ppm	< 20 ppm
ELEMENTAL IMPURITIES	AS REPORTED		NO ELEMENTAL IMPURITIES PRESENT
CHLORINATED COMPOUNDS (HALOGENATED COMPOUNDS as Cl)		30 ppm	< 30 ppm
CHLORIDE (Cl) E.P		10 ppm	< 10 ppm
ACIDITY OR ALKALINITY (EP)	COLORLESS <0.2 mL		COLORLESS <0.2 mL
WATER		2.0%	0.05 %
FATTY ACIDS AND ESTERS		1 mL	0.7
RELATED COMPOUNDS (USP):			.
INDIVIDUAL IMPURITIES		0.10 %	<0.1
TOTAL IMPURITIES		1.0 %	<1.0
IMPURITY A AND RELATED SUBSTANCES :			.

TEST	SPECIFICATION		RESULT
	MIN	MAX	
IMPURITY A		0.1 %	<0.1 %
TOTAL OF ALL IMPURITIES WITH RETENTION TIME GREATER THAN THE RETENTION TIME OF G		0.5 %	< 0.5 %
OTHER IMPURITY WITH A RETENTION TIME LESS THAN THE RETENTION TIME OF GLICEROL:		0.1 %	<0.1 %
ACIDITY OR ALKALINITY	COLORLESS <0.2 mL		COLORLESS < 0.2 mL
ALDEHYDES		10 ppm	< 10 ppm
SUGARS	REMAINS BLUE AND NO PRECIPITATE FORMS		REMAINS BLUE AND NO PRECIPITATE FORMS
ESTERS	8.0 mL		> 8.0 mL
IDENTIFICATION:			.
IDENTIFICATION: A USP (FTIR)	SPECTRUM MATCHES REFERENCE		SPECTRUM MATCHES REFERENCE
IDENTIFICATION: B (USP)		0.10 % each	<0.10 % EACH
IDENTIFICATION: C (USP)	RETENTION TIME CORRESPONDS TO STANDARD		RETENTION TIME CORRESPOND TO STANDARD
IDENTIFICATION : A (EP)	1.470	1.475	1.472
IDENTIFICATION : C (EP)	1.258	1.268	1.268
CERTIFIED KOSHER			CERTIFIED KOSHER
CERTIFIED HALAL			CERTIFIED HALAL
MONOGRAPH EDITION			USP 2023 , EP 11
MONOGRAPH EDITION.			BP 2024
EXPIRATION DATE			11-NOV-2026
DATE OF MANUFACTURE			12-NOV-2023
MANUFACTURER NAME:			EVYAP SABUN MALAYSIA
RESIDUAL SOLVENTS	AS REPORTED		NO RESIDUAL SOLVENTS PRESENT

Certificate of Analysis Results Entered By:

CACEVEDO  
Charmian Acevedo  
29-MAR-24 11:16:41

Certificate of Analysis Results Approved By:

AWILLIAMS  
Allison Williams  
29-MAR-24 11:16:49

Spectrum Chemical Mfg Corp  
755 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.**

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

# SAFETY DATA SHEET

# spectrum®



Revision date 28-February-2022

Revision Number 4

## 1. Identification

### Product identifier

**Product Name** GLYCERIN, NATURAL, USP, EP, BP

### Other means of identification

**Product Code(s)** G1016

**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

Serious eye damage/eye irritation

Category 2B

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### Warning

#### Hazard statements

Causes eye irritation

**Appearance** viscous

**Physical state** Liquid

**Odor** Slight

### Precautionary Statements - Prevention



Wash face, hands and any exposed skin thoroughly after handling

#### Precautionary Statements - Response

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

#### Other information

Causes mild skin irritation.

### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%	Trade secret
Glycerin	56-81-5	100	*

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

### 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.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention if irritation develops and persists. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash skin with soap and water.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

#### Most important symptoms and effects, both acute and delayed

Symptoms	Prolonged contact may cause redness and irritation.
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#### Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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### 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	Carbon Monoxide, Carbon Dioxide.
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** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### 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 containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerin 56-81-5	No data available	15 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA	-

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** None required for consumer use. Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective 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.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	viscous
<b>Color</b>	clear; Colorless
<b>Odor</b>	Slight
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	no data available	None known
<b>Melting point / freezing point</b>	19 - 20 °C / 66.2 - 68 °F	None known
<b>Boiling point / boiling range</b>	290 °C / 554 °F	None known
<b>Flash point</b>	160 °C / 320 °F	None known
<b>Evaporation rate</b>	no data available	None known
<b>Flammability (solid, gas)</b>	no data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	0	None known
<b>Vapor density</b>	3.17	None known
<b>Relative density</b>	1.2613 - 1.2636	None known
<b>Water solubility</b>	Soluble in water	None known
<b>Solubility(ies)</b>	Insoluble in Benzene Insoluble in Chloroform Insoluble in Carbon disulfide Insoluble in Carbon tetrachloride Insoluble in Petroleum ether	None known
<b>Partition coefficient</b>	-1.76	None known
<b>Autoignition temperature</b>	370 - 392 °C / 698 - 737.6 °F	None known
<b>Decomposition temperature</b>		None known
<b>Kinematic viscosity</b>	no data available	None known
<b>Dynamic viscosity</b>	No data available	None known

### Other information

<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Softening point</b>	No information available
<b>Molecular weight</b>	92.09
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. Stability and reactivity

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous decomposition products</b>	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.
Eye contact	Specific test data for the substance or mixture is not available. Causes eye irritation. May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. Causes mild skin irritation.
Ingestion	Specific test data for the substance or mixture is not available.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.
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### Acute toxicity

#### Numerical measures of toxicity

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerin 56-81-5	= 12600 mg/kg ( Rat )	= 21900 mg/kg ( Rat ) > 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h

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

Skin corrosion/irritation	May cause skin irritation. Classification based on data available for ingredients.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Irritating to eyes.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	kidney, respiratory system, Eyes, Skin.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

## 12. Ecological information

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerin 56-81-5	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	EC50: >500mg/L (24h, Daphnia magna)

Persistence and degradability	No information available.
Bioaccumulation	Inherently biodegradable.

#### Component Information

Chemical name	Partition coefficient
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Glycerin 56-81-5	-1.76
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**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

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** Complies

**EINECS/ELINCS** Complies

**ENCS** This product complies with ENCS:

**IECSC** This product complies with China:

**KECL** Complies

**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

Complies

## 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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Glycerin 56-81-5	3319	Present	Present

## U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## **16. Other information**

### **NFPA**

**Health hazards** 2

**Flammability** 1

**Instability** 0

**Physical and chemical properties** -

### **HMIS**

**Health hazards** 2

**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** 28-February-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**

## 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
G1016	Glycerin, Natural, USP, EP, BP

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](mailto:qualityassurance@spectrumchemical.com)

Sincerely,  
Quality Assurance  
Spectrum Chemical Mfg. Corp.

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



## G1016, Glycerin, Natural, USP, EP, BP

### Source Statement

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

### BSE/TSE Statement

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

### Allergen Statement

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

- |             |                             |
|-------------|-----------------------------|
| ▪ Milk      | ▪ Cereals containing Gluten |
| ▪ Egg       | ▪ Celery                    |
| ▪ Fish      | ▪ Mustard                   |
| ▪ Shellfish | ▪ Peanuts                   |
| ▪ Tree Nuts | ▪ Corn                      |
| ▪ Wheat     | ▪ Latex                     |

### EU Fragrance Allergen Statement

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

### GMO Statement

The above-mentioned catalog item is manufactured with the use of genetically modified organisms (Soy).

### 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 the above-mentioned 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 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        | ▪ Parabens      |
| ▪ Antibiotics       | ▪ Pesticides    |
| ▪ Bisphenol A (BPA) | ▪ Phthalates    |
| ▪ CMR Substances    | ▪ Preservatives |

## Residual Solvents - Glycerin, Natural, USP, EP, BP (Catalog No. G1016)

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
Methanol	2	< 3000 ppm

No Class 1, Class 3, 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 [TechServices@spectrumchemical.com](mailto:TechServices@spectrumchemical.com).

Sincerely,  
Technical Services  
Spectrum Chemical Mfg. Corp.

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

## Label Information

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.

**WARNING**  
 • Causes eye irritation • Causes mild skin irritation.  
 • Wash face, hands and any exposed skin thoroughly after handling.  
**FIRST AID:** 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 attention. If skin irritation occurs: Get medical attention.  
**KEEP FROM CHILDREN**



G1016

SIZ SY

### Glycerin (Glycerol; 1,2,3-Propanetriol)

Natural

USP, EP, BP

CAS 56-81-5



**CAUTION:** For manufacturing, processing or repacking.

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

**Chemical Emergency: (800)424-9300**

[www.SpectrumChemical.com](http://www.SpectrumChemical.com)



F.W. 92.10

Assay (Anhydrous Basis)	99.0-101.0%
Specific Gravity @ 25°C	Min. 1.249
Appearance of Solution	To pass test
Refractive Index	1.470-1.475

Identification:	
Identification A (USP)	To pass test
Identification B (USP)	To pass test
Identification C (USP)	To pass test

MAXIMUM LIMITS	
Color	To pass test
Residue on Ignition (Sulfated Ash)	0.01%
Chloride (Cl)	10 ppm
Sulfate (SO <sub>4</sub> )	20 ppm
Elemental Impurities	As reported
Chlorinated Compounds (Halogenated Compounds as Cl)	30 ppm
Water	2.0%
Fatty Acids and Esters	To pass test
Related Compounds (USP)	To pass test
Impurity A and Related Substances	To pass test
Acidity or Alkalinity	To pass test
Aldehydes	10 ppm
Sugars	To pass test
Esters	To pass test
Residual Solvents	To pass test

HYGROSCOPIC: Keep tightly closed.

**WARNING:** Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

G 26/17GHS

?

Lot No. XQ####

### Spectrum Chemical Mfg Corp

#### Corporate Headquarters:

769 Jersey Ave.

New Brunswick, NJ 08901

732.214.1300

#### West Coast Facility:

14422 S. San Pedro St.

Gardena, CA 90248

310.516.8000



KOSHER SUPERVISION OF AMERICA

בס"ד  
Jan 18, 2024

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

**Spectrum Laboratory Products, Inc.**

S-0032

14422 South San Pedro Street,  
Gardena, CA 90248  
755-769 Jersey Ave.  
New Brunswick NJ 08901  
USA

<b>Product Name</b>	<b>G1016, Glycerin, Natural, USP, EP, BP</b>
<b>Brand</b>	<b>Spectrum</b>
<b>UKD-ID</b>	<b>KSAV3-U4W2B39</b>
<b>D/P/M</b>	<b>P</b>
<b>Symbol Required</b>	<b>KSA</b>
<b>Special Conditions</b>	

This certificate expires on  
**Feb 01, 2025**

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.