

# **Scientific Documentation**

# Ethyl Alcohol, 20 Percent w/ WFI, Downstream Bioprocess Solution, 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 Ethyl Alcohol, 20 Percent w/ WFI, Downstream Bioprocess Solution, bioCERTIFIED (TM) (E9200)

Item Number	E9200
Item	Ethyl Alcohol, 20 Percent w/ WFI, Downstream Bioprocess Solution, bioCERTIFIED (TM)
CAS Number	
Molecular Formula	
Molecular Weight	
MDL Number	
Synonyms	

Test	Spec	cification
	Min	Max
ASSAY (v/v)	19.0	21.0 %
ASSAY (w/w)	15.5	17.0 %
SPECIFIC GRAVITY @ 15.56°C	0.9749	0.9769
SPECIFIC GRAVITY @ 20°C	0.9747	0.9757
COLOR (Pt-Co)		10
ACIDITY	TO PASS TEST	
BIOBURDEN: YEAST & MOLD		10 cfu/100mL
BIOBURDEN: PLATE COUNT		10 cfu/100mL
APPEARANCE		
EXPIRATION DATE		
DATE OF MANUFACTURE		

#### Spectrum Chemical Mfg Corp

Corporate Headquarters:West Coast Facility:769 Jersey Ave.14422 S. San Pedro St.New Brunswick, NJ 08901Gardena, CA 90248732.214.1300310.516.8000



# **Certificate Of Analysis**

Item Number	E9200	Lot Number	2LG0280
Item	Ethyl Alcohol, 20 Percent w/ WFI, Downstream Bioprocess Solution, bioCERTIFIED (TM)		

TECT	SPECIFICATION		DECLUT	
TEST	MIN	MAX	RESULT	
ASSAY (v/v)	19.0	21.0 %	20.0 %	
ASSAY (w/w)	15.5	17.0 %	16.2 %	
SPECIFIC GRAVITY @ 15.56°C	0.9749	0.9769	0.9755	
SPECIFIC GRAVITY @ 20°C	0.9747	0.9757	0.9755	
COLOR (Pt-Co)		10	<10	
ACIDITY	TO PASS TEST		PASSES TEST	
BIOBURDEN: YEAST & MOLD		10 cfu/100mL	<10 CFU/100ML	
BIOBURDEN: PLATE COUNT		10 cfu/100mL	<10 CFU/100 ML	
APPEARANCE			CLEAR, COLORLESS LIQUID	
EXPIRATION DATE			13-JUN-2025	
DATE OF MANUFACTURE			14-JUN-2022	
ENDOTOXINS			<19.2 EU/ML	

Certificate of Analysis Results Entered By:

TDAO Tiffany DAO 30-AUG-22 12:30:52

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

AWILLIAMS Allison Williams 30-AUG-22 12:36:24

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.

# SAFETY DATA SHEET SPECTRUM®



Revision date 20-February-2020

**Revision Number** 1

#### 1. Identification

**Product identifier** 

Product Name Ethyl Alcohol 20% w/ WFI (40 Proof)

Other means of identification

Product Code(s) E9200

UN/ID no UN1170

**Synonyms** Ethyl Alcohol 14-18%; Ethanol

Recommended use of the chemical and restrictions on use

Recommended use Solvent

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 2
Flammable liquids	Category 3

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Danger

#### Hazard statements

Causes serious eye irritation Flammable liquid and vapor



Appearance Liquid Physical state liquid Odor sweet Alcohol

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/.?/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

In case of fire: Use CO2, dry chemical, or foam to extinguish

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

#### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### <u>Mixture</u>

#### **Synonyms**

Ethyl Alcohol 14-18%; Ethanol.

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	80-86	*
Ethyl alcohol	64-17-5	14-20	*

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

#### 4. First-aid measures

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

**General advice** 

IF exposed or concerned: Get medical advice/attention. 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. Do not rub affected area. 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 while removing all contaminated

clothes and shoes.

**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.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

#### 5. Fire-fighting measures

Suitable Extinguishing Media Large Fire Dry chemical. Carbon dioxide (CO2). water spray. Alcohol resistant foam. 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

risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Explosion data** 

Sensitivity to mechanical impact none.

Sensitivity to static discharge yes.

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 Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

#### 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

#### 8. Exposure controls/personal protection

#### Control parameters

**Exposure Limits** 

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol	No data available	1000 ppm TWA	3300 ppm IDLH
64-17-5		1900 mg/m³ TWA	

#### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

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

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

**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 Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

#### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state liquid
Appearance Liquid
Color clear

Odor sweet Alcohol

Odor threshold No information available

Property Values Remarks • Method

рΗ no data available None known Melting point / freezing point -7 - -6 °C / 19.4 - 21.2 °F None known Boiling point / boiling range 87 - 90 °C / 188.6 - 194 °F None known Flash point 40.0 - 46.0 °C / 104 - 114.8 °FNone 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 19 %

limits

Lower flammability or explosive 3.3 %

limits

Vapor pressure 5.95 None known Vapor density 1.6 None known Relative density 0.972 - 0.977 None known Water solubility completely soluble None known Solubility(ies) no data available None known Partition coefficient No data available None known **Autoignition temperature** no data available None known **Decomposition temperature** None known Kinematic viscosity no data available None known No data available **Dynamic viscosity** None known

Other information

Explosive properties
Oxidizing properties
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** Heat, flames and sparks.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products Spontaneous polymerisation.

#### 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. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

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

gastrointestinal irritation, nausea, vomiting and diarrhea.

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

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

**Acute toxicity** 

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document ...

ATEmix (oral) 47,066.70 mg/kg

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	90 mL/kg (Rat)	-	-
7732-18-5 Ethyl alcohol	= 7060 mg/kg ( Rat )	_	124.7 mg/L (Rat) 4 h
64-17-5	= 7000 mg/kg ( Kat )	-	124.7 mg/L (Rat) 4 m

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

Skin corrosion/irritation

Serious eye damage/eye irritation

May cause skin irritation. Classification based on data available for ingredients. Causes serious eye irritation. No information available.

Respiratory or skin sensitization Germ cell mutagenicity

No information available.

Carcinogenicity ingredients. May cause cancer.

Contains a known or suspected carcinogen. Classification based on data available for

The table below indicates whether each agency has listed any ingredient as a carcinogen. Chemical name ACGIH **IARC OSHA** Ethyl alcohol Monograph 100E [2012] 64-17-5 in alcoholic beverages Monograph 96 [2010] in alcoholic beverages

#### Legend

Reproductive toxicity No information available.

STOT - single exposure No information available. STOT - repeated exposure No information available.

Target organ effects liver, respiratory system, Eyes, Skin, central nervous system, blood, Reproductive System.

**Aspiration hazard** 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	

Ethyl alcohol	-	LC50: 12.0 - 16.0mL/L	-	LC50: 9268 - 14221mg/L
64-17-5		(96h, Oncorhynchus		(48h, Daphnia magna)
		mykiss) LC50: 13400 -		EC50: =10800mg/L (24h,
		15100mg/L (96h,		Daphnia magna) EC50:
		Pimephales promelas)		=2mg/L (48h, Daphnia
		LC50: >100mg/L (96h,		magna)
		Pimephales promelas)		,

Persistence and degradability

Bioaccumulation

No information available. Inherently biodegradable.

**Component Information** 

Chemical name	Partition coefficient
Ethyl alcohol	-0.32
64-17-5	

Other adverse effects No information available.

#### 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

#### 14. Transport information

#### DOT

UN/ID no UN1170

Proper Shipping Name: Ethanol solution

Hazard class 3 Packing group:

Special Provisions 24, B1, IB3, T2, TP1
Marine Pollutant Severe Marine Pollutant
Description: UN1170, Ethanol solution, 3, III

Emergency Response Guide

Number

127

#### **TDG**

**UN-No:** UN1170

Proper Shipping Name: Ethanol solution

Hazard class 3 Packing Group: III

**Description:** UN1170, Ethanol solution, 3, III

#### MEX

UN-No UN1170

Proper Shipping Name Ethanol solution

Hazard class 3

**Special Provisions** 144, 223

Packing Group III

**Description** UN1170, Ethanol solution, 3, III

#### ICAO (air)

**UN-No:** UN1170

Proper Shipping Name: Ethanol solution

Hazard class 3 Packing Group: III Special Provisions A58, A180, A3

**Description:** UN1170, Ethanol solution, 3, III

IATA

UN number UN1170
Proper Shipping Name: Ethanol solution

Transport hazard class(es) 3
Packing group III

**Description:** UN1170, Ethanol solution, 3, III

**IMDG** 

UN number UN1170
Proper shipping name Ethanol solution

Transport hazard class(es)

Packing group

EmS-No

Special Provisions

Marine pollutant

S

3

III

F-E, S-D

144, 223

MP1

**Description** UN1170, Ethanol solution, 3, III, (40°C c.c.)

<u>RID</u>

UN number UN1170
Proper Shipping Name: Ethanol solution

Transport hazard class(es)

Packing group

Classification code

Special Provisions

3

HII

F1

Special Provisions

**Description:** UN1170, Ethanol solution, 3, III

Labels 3

<u>ADR</u>

UN number 1170

Proper Shipping Name: Ethanol solution

Transport hazard class(es)

Packing group

Classification code

Tunnel restriction code

Special Provisions

3

III

(D/E)

144, 601

**Description:** 1170, Ethanol solution, 3, III, (D/E)

Labels 3

<u>ADN</u>

UN/ID No UN1170

Proper shipping name Ethanol solution

Transport hazard class(es)

Packing Group

Classification code

Special Provisions

3

HII

F1

44, 601

**Description** UN1170, Ethanol solution, 3, III

Hazard label(s) 3
Limited quantity (LQ) 5 L
ventilation VE01
Equipment Requirements PP, EX, A

#### 15. Regulatory information

#### International Inventories

**TSCA** Complies

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

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

#### **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 2 Flammability 2 Instability 0

Physical and chemical properties -

HMIS

Health hazards 2 \*
Flammability 2
Physical hazards 0
Personal protection X
Chronic Hazard Star Legend

\* = Chronic Health Hazard

#### 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 \* Skin designation

#### 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 Revision Note**20-February-2020
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
E9200	Ethyl Alcohol 20% w/ WFI
	Downstream Bioprocess Solution

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

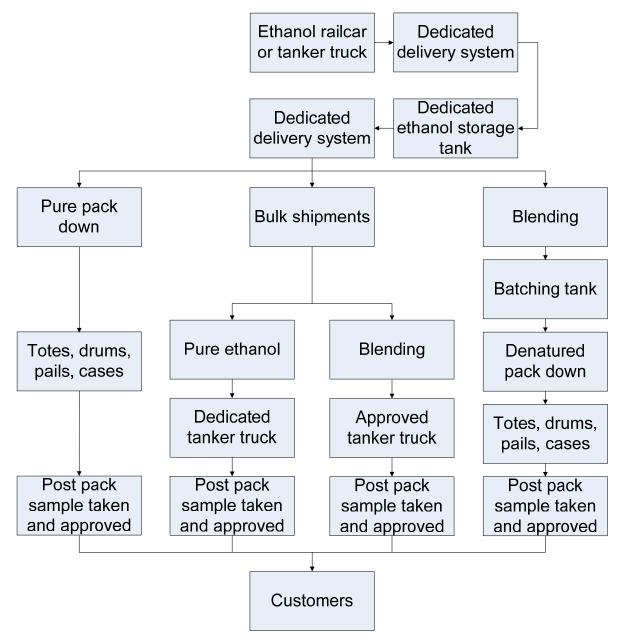
Quality Assurance Specialist

Order Clony



## **Manufacturing Process Flowchart**

# Dehydrated Alcohol, 200 Proof, Undenatured, USP - E9200



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



# **E9200,** Ethyl Alcohol 20 Percent w/ WFI, Downstream Bioprocess Solution

#### **Source Statement**

The above mentioned catalog item is derived from plant derived material, Corn, and fermentation derived material, Enzymes and Yeast. No animal derived products are used in the manufacturing process.

#### **BSE/TSE Statement**

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

## **Allergen Statement**

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

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

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

#### **GMO Statement**

The above mentioned catalog item is manufactured with the use of genetically modified organisms and might contain GMO's, but no detectable levels of GMO's are expected to be resent.

#### **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 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**

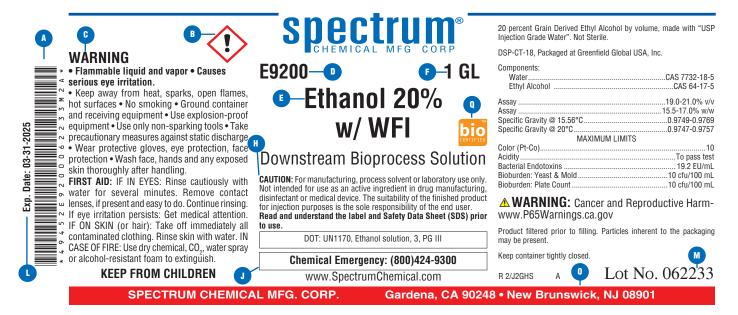
Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Preservatives
- Bisphenol A (BPA)
- Parabens
- Pesticides
- Phthalates



#### **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.



- 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
- bioCertified

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

Corporate Headquarters:West Coast Facility:769 Jersey Ave.14422 S. San Pedro St.New Brunswick, NJ 08901Gardena, CA 90248732.214.1300310.516.8000

YELLOW: Oxidizer

RED: Flammable

GREEN: General Storage

BLUE: Health Hazard

WHITE: Corrosive