

# Scientific Documentation

## Ethyl Alcohol, 190 Proof, FCC

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  
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# Specification for Ethyl Alcohol, 190 Proof, FCC (E1020)

Item Number	E1020
Item	Ethyl Alcohol, 190 Proof, FCC
CAS Number	64-17-5
Molecular Formula	C <sub>2</sub> H <sub>5</sub> OH
Molecular Weight	46.07
MDL Number	
Synonyms	Alcohol ; Ethanol ; Grain Derived Alcohol ; Ethyl Alcohol

Test	Specification	
	Min	Max
APPEARANCE		
IDENTIFICATION (FTIR)	SPECTRUM MATCHES REFERENCE	
ASSAY (by VOLUME)	94.9 %	
ACIDITY (as CH <sub>3</sub> COOH)		0.003 %
ALKALINITY (AS AMMONIA)		3 mg/kg
FUSEL OIL	NO FOREIGN ODOR	
KETONE, ISOPROPYL ALCOHOL	NO PRECIPITATE FORMS	
LEAD (Pb)		0.5 mg/kg
METHANOL AND OTHER VOLATILE IMPURITIES:		
METHANOL		200 ?L/L
Any other single Impurity (as 4-methylpentan-2-ol)		1000 ?L/L
Sum of all Impurities		5000 ?L/L
NONVOLATILE RESIDUE		0.003 %
SOLUBILITY IN WATER	NO HAZE OR TURBIDITY DEVELOPS	
SUBSTANCES DARKENED BY (H <sub>2</sub> SO <sub>4</sub> )	NO MORE COLOR THAN ACID	
SUBSTANCES REDUCING (KMnO <sub>4</sub> )	PINK COLOR REMAINS	
CERTIFIED KOSHER		
EXPIRATION DATE		

Test	Specification	
	Min	Max
DATE OF MANUFACTURE		
MONOGRAPH EDITION		

***Spectrum Chemical Mfg Corp***

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<i><b>Corporate Headquarters:</b></i>	<i><b>West Coast Facility:</b></i>
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	E1020	Lot Number	2NA0195
Item	Ethyl Alcohol, 190 Proof, FCC	CAS Number	64-17-5
Molecular Formula	C <sub>2</sub> H <sub>5</sub> OH	Molecular Weight	46.07

TEST	SPECIFICATION		RESULT
	MIN	MAX	
APPEARANCE			COLORLESS LIQUID
IDENTIFICATION (FTIR)	SPECTRUM MATCHES REFERENCE		SPECTRUM MATCHES REFERENCE
ASSAY (by VOLUME)	94.9 %		95.0 %
ACIDITY (as CH <sub>3</sub> COOH)		0.003 %	0.0001 %
ALKALINITY (AS AMMONIA)		3 mg/kg	< 3 mg/kg
FUSEL OIL	NO FOREIGN ODOR		NO FOREIGN ODOR
KETONE, ISOPROPYL ALCOHOL	NO PRECIPITATE FORMS		NO PRECIPITATE FORMS
LEAD (Pb)		0.5 mg/kg	< 0.5 mg/kg
METHANOL AND OTHER VOLATILE IMPURITIES:			.
METHANOL		200 µL/L	0 µL/L
Any other single Impurity (as 4-methylpentan-2-ol)		1000 µL/L	0 µL/L
Sum of all Impurities		5000 µL/L	1 µL/L
NONVOLATILE RESIDUE		0.003 %	0.000 %
SOLUBILITY IN WATER	NO HAZE OR TURBIDITY DEVELOPS		NO HAZE OR TURBIDITY DEVELOPS
SUBSTANCES DARKENED BY (H <sub>2</sub> SO <sub>4</sub> )	NO MORE COLOR THAN ACID		NO MORE COLOR THAN ACID

TEST	SPECIFICATION		RESULT
	MIN	MAX	
SUBSTANCES REDUCING (KMnO <sub>4</sub> )	PINK COLOR REMAINS		PINK COLOR REMAINS
CERTIFIED KOSHER			CERTIFIED KOSHER
EXPIRATION DATE			15-JAN-2027
DATE OF MANUFACTURE			16-JAN-2024
MONOGRAPH EDITION			FCC 13

Certificate of Analysis Results Entered By:

CMARIN  
Catherine Marin  
18-MAR-24 04:40:19

Spectrum Chemical Mfg Corp  
755 Jersey Avenue  
New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

AWILLIAMS  
Allison Williams  
18-MAR-24 06:03:35

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 04-May-2022

Revision Number 5

## 1. Identification

### Product identifier

**Product Name** ETHYL ALCOHOL, 190 PROOF, FCC

### Other means of identification

**Product Code(s)** E1020

**UN/ID no** UN1170

**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 2A
Reproductive toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Danger**

#### Hazard statements

Causes serious eye irritation  
May damage fertility or the unborn child

May cause respiratory irritation  
May cause drowsiness or dizziness  
Causes damage to organs through prolonged or repeated exposure  
Highly flammable liquid and vapor



**Appearance** Clear

**Physical state** Liquid

**Odor** 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  
Do not breathe dust/fume/gas/mist/vapors/spray  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
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  
Keep cool

#### **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  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

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

Store locked up.  
Store in a well-ventilated place. Keep container tightly closed

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

Dispose of contents/container to an approved waste disposal plant

#### **Other information**

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

### **3. Composition/information on ingredients**

#### **Substance**

Not applicable.

#### **Mixture**

Chemical name	CAS No	Weight-%	Trade secret
Ethyl Alcohol 200 proof	64-17-5	80 - 100	*
Water	7732-18-5	5 - <10	*



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

## 4. First-aid measures

### Description of first aid measures

<b>General advice</b>	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Ingestion</b>	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.
<b>Self-protection of the first aider</b>	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

<b>Symptoms</b>	May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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## 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b> <b>Large Fire</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	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.
<b>Hazardous combustion products</b>	Carbon Monoxide, Carbon Dioxide.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	none.
<b>Sensitivity to static discharge</b>	yes.
<b>Special protective equipment for fire-fighters</b>	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. Remove contaminated clothing and shoes. In case of insufficient ventilation, wear suitable respiratory equipment.

#### **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. 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.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol 200 proof 64-17-5	No data available	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA	-

#### **Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations

Ventilation systems.

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

<b>Eye/face protection</b>	Tight sealing safety goggles.
<b>Hand protection</b>	Wear suitable gloves. Impervious gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	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**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear
<b>Color</b>	Colorless
<b>Odor</b>	Alcohol
<b>Odor threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	no data available	None known
<b>Melting point / freezing point</b>	-114 °C / -173.2 °F	None known
<b>Boiling point / boiling range</b>	79 °C / 174.2 °F	None known
<b>Flash point</b>	17 °C / 62.6 °F	CC (closed cup)
<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>	19%	
<b>Lower flammability or explosive limits</b>	3.3%	
<b>Vapor pressure</b>	5.8	None known
<b>Vapor density</b>	1.6	None known
<b>Relative density</b>	0.8	None known
<b>Water solubility</b>	Miscible in water	None known
<b>Solubility(ies)</b>	Miscible with many organic solvents	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	no data available	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>	No information available
<b>VOC Content (%)</b>	94+ % .?
<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>	Heat, flames and sparks.
<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

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	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

<b>Symptoms</b>	May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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### Acute toxicity

#### Numerical measures of toxicity

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Alcohol 200 proof 64-17-5	= 7060 mg/kg ( Rat )	-	124.7 mg/L ( Rat ) 4 h
Water 7732-18-5	90 mL/kg ( Rat )	-	-

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

<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol 200 proof 64-17-5	-	Group 1 - Monograph 100E [2012] in alcoholic beverages Monograph 96 [2010] in	-	-

		alcoholic beverages		
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#### Legend

<b>Reproductive toxicity</b>	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
<b>STOT - single exposure</b>	May cause respiratory irritation. May cause drowsiness or dizziness.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Target organ effects</b>	liver, respiratory system, Eyes, Skin, central nervous system, blood, Reproductive System.
<b>Aspiration hazard</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Interactive effects</b>	No information available.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl Alcohol 200 proof 64-17-5	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: 13400 - 15100mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =10800mg/L (24h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	Inherently biodegradable.

#### Component Information

Chemical name	Partition coefficient
Ethyl Alcohol 200 proof 64-17-5	-0.32

<b>Other adverse effects</b>	No information available.
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## 13. Disposal considerations

#### Waste treatment methods

<b>Waste from residues/unused products</b>	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

## 14. Transport information

#### DOT

<b>UN/ID no</b>	UN1170
<b>Proper Shipping Name:</b>	Ethanol solution
<b>Hazard class</b>	3
<b>Packing group:</b>	II
<b>Special Provisions</b>	24, IB2, T4, TP1
<b>Marine Pollutant</b>	Severe Marine Pollutant
<b>Description:</b>	UN1170, Ethanol solution, 3, II

**Emergency Response Guide** 127  
**Number**

**TDG**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Hazard class** 3  
**Packing Group:** II  
**Description:** UN1170, Ethanol solution, 3, II

**MEX**

**UN-No** UN1170  
**Proper Shipping Name** Ethanol solution  
**Hazard class** 3  
**Special Provisions** 144  
**Packing Group** II  
**Description** UN1170, Ethanol solution, 3, II

**ICAO (air)**

**UN-No:** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Hazard class** 3  
**Packing Group:** II  
**Special Provisions** A58, A180, A3  
**Description:** UN1170, Ethanol solution, 3, II

**IATA**

**UN number** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Transport hazard class(es)** 3  
**Packing group** II  
**Description:** UN1170, Ethanol solution, 3, II

**IMDG**

**UN number** UN1170  
**Proper shipping name** Ethanol solution  
**Transport hazard class(es)** 3  
**Packing group** II  
**EmS-No** F-E, S-D  
**Special Provisions** 144  
**Marine pollutant** NP1  
**Description** UN1170, Ethanol solution, 3, II, (17°C c.c.)

**RID**

**UN number** UN1170  
**Proper Shipping Name:** Ethanol solution  
**Transport hazard class(es)** 3  
**Packing group** II  
**Classification code** F1  
**Special Provisions** 144, 601  
**Description:** UN1170, Ethanol solution, 3, II  
**Labels** 3

**ADR**

**UN number** 1170  
**Proper Shipping Name:** Ethanol solution  
**Transport hazard class(es)** 3  
**Packing group** II  
**Classification code** F1  
**Tunnel restriction code** (D/E)  
**Special Provisions** 144, 601  
**Description:** 1170, Ethanol solution, 3, II, (D/E)  
**Labels** 3

**ADN**

**UN/ID No** UN1170

<b>Proper shipping name</b>	Ethanol solution
<b>Transport hazard class(es)</b>	3
<b>Packing Group</b>	II
<b>Classification code</b>	F1
<b>Special Provisions</b>	144, 601
<b>Description</b>	UN1170, Ethanol solution, 3, II
<b>Hazard label(s)</b>	3
<b>Limited quantity (LQ)</b>	1 L
<b>ventilation</b>	VE01
<b>Equipment Requirements</b>	PP, EX, A

## 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

### 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 contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Ethyl Alcohol 200 proof - 64-17-5	developmental toxicity carcinogen

#### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol 200 proof 64-17-5	0844	Present	Present

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

### **16. Other information**

#### **NFPA**

**Health hazards** 2

**Flammability** 3

**Instability** 0

**Physical and chemical properties** -

#### **HMIS**

**Health hazards** 2 \*

**Flammability** 3

**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

#### **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) (AELG(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**

04-May-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
E1020	Ethyl Alcohol, 190 Proof, FCC

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)

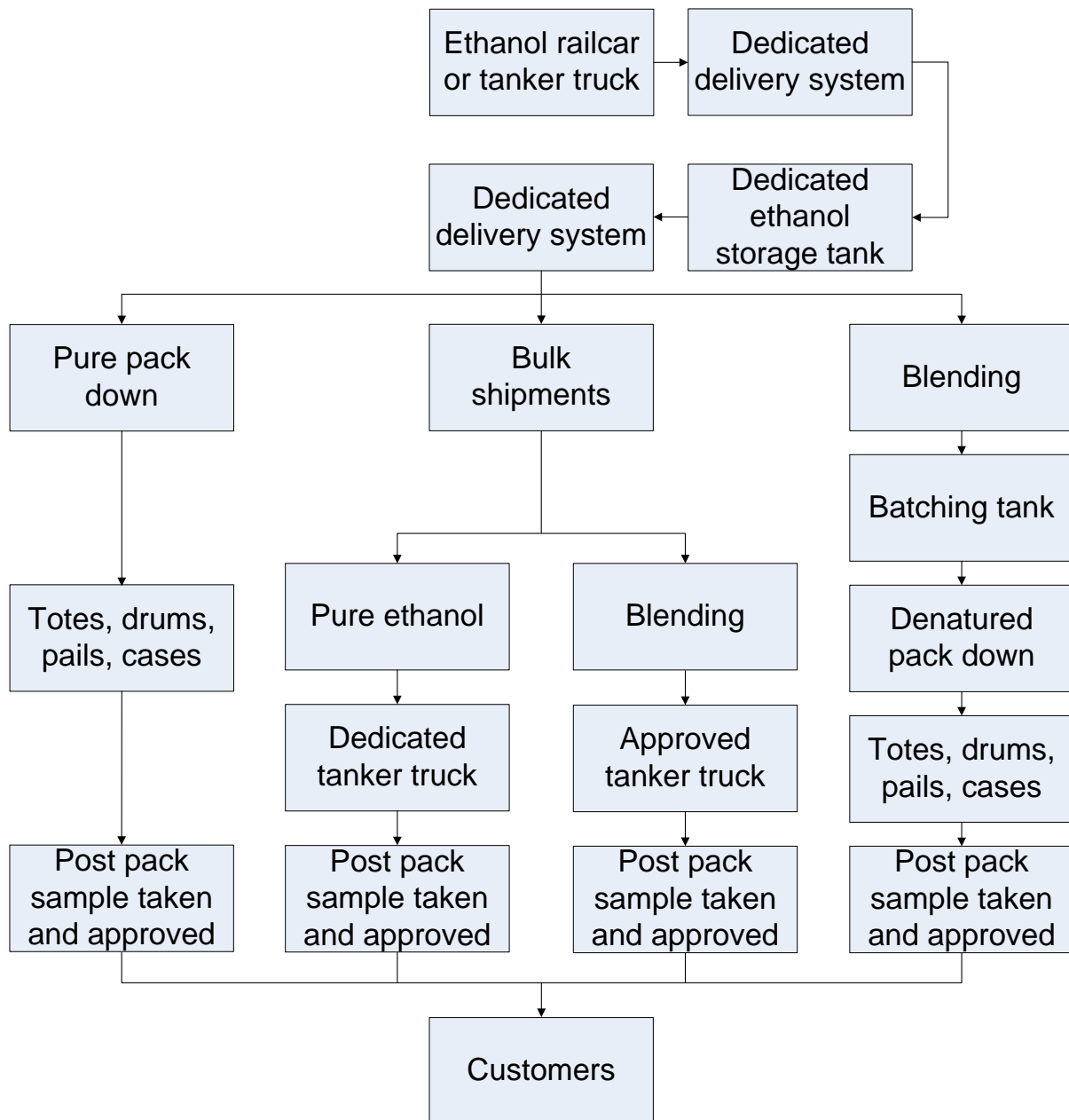
Sincerely,

A handwritten signature in black ink, appearing to read "Oralia Chavez".

Oralia Chavez  
Quality Assurance Specialist

## Manufacturing Process Flowchart

### Ethyl Alcohol, 190 Proof, FCC - E1020



#### ***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

## E1020, Ethyl Alcohol, 190 Proof, FCC

### Source Statement

The above mentioned catalog item is manufactured from plant origin (corn) and fermentation origin (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
- Soy
- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- 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 with the use of genetically modified organisms and might contain GMO's, but no detectable levels of GMO's are expected to be present.

### 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        | • Parabens      |
| • Antibiotics       | • Pesticides    |
| • Bisphenol A (BPA) | • Phthalates    |
| • CMR Substances    | • Preservatives |

## 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®**  
CHEMICAL MFG CORP

**E1020** **4 L**

**Ethyl Alcohol**  
(Ethanol; Grain Derived Ethanol)

**190 Proof**  
**FCC**

**CAS 64-17-5**

**CAUTION:** For manufacturing and processing for non-beverage purposes. For industrial use.  
**Read and understand the label and Safety Data Sheet (SDS) prior to use.**

**DOT:** UN1170, Ethanol, 3, PG II

**Chemical Emergency: (800)424-9300**  
[www.SpectrumChemical.com](http://www.SpectrumChemical.com)

**KEEP FROM CHILDREN**

**Components:**  
Ethyl Alcohol ..... CAS 64-17-5  
Water ..... CAS 7732-18-5

**BOTTLED BY:**  
**SPECTRUM LABORATORY PRODUCTS, INC.**  
**GARDENA, CALIFORNIA**

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

**LIGHT SENSITIVE:** Keep tightly closed in light-resistant containers.

**Lot No. 062233**

**SPECTRUM CHEMICAL MFG. CORP.** **Gardena, CA 90248 • New Brunswick, NJ 08901**

- |   |  |   |
|---|--|---|
| <b>A</b> Bar Code   | <b>G</b> Chemical Abstracts Service (CAS) Registry Number      | <b>K</b> Empirical Formula, Formula Weight and Technical Specifications Panel |
| <b>B</b> GHS Hazard Pictograms                              | <b>H</b> Caution Information                                   | <b>L</b> Expiration Information   |
| <b>C</b> Warning, Safety Data and Precautionary Information | <b>I</b> DOT Shipping Information                              | <b>M</b> Lot Number   |
| <b>D</b> Product Catalog Number                             | <b>J</b> Toll-Free 24-Hour Chemical Emergency Telephone Number | <b>N</b> Kosher Certified by Kosher Supervision of America (KSA).             |
| <b>E</b> Item Name, Form, Grade                             |  | <b>O</b> Storage Color Band   |
| <b>F</b> Size/Quantity                                      |  | <b>P</b> Halal Certified by IFANCA  |
|   |  | <b>Q</b> 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.

- YELLOW:** Oxidizer
- RED:** Flammable
- GREEN:** General Storage
- BLUE:** Health Hazard
- WHITE:** Corrosive

### Spectrum Chemical Mfg Corp

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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

**Product Name** E1020, Ethyl Alcohol, 190 Proof, FCC

**Brand** Spectrum

**UKD-ID** KSAV3-N5U4J7

**D/P/M** P

**Symbol Required** KSA

**Special Conditions**

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.