

A Division of Spectrum Chemical Mfg. Corp.

Dear Customer,

This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI format to the GHS format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

Why It Matters:

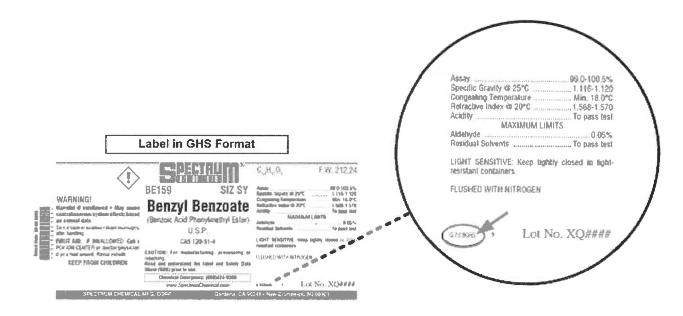
The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

<u>Picking the Right One</u>: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

- 1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond. ANSI labels: pictograms, if present, will be inside individual black boxes.
- 2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in "GHS:"



CORPORATE OFFICES
14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
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¹ American National Standards Institute

Sincerely,

Regulatory Affairs

² Globally Harmonized System for Hazard Communication





SAFETY DATA SHEET

Preparation Date: 9/27/2013 Revision Date: 4/15/2015 Revision Number: G4

Product identifier

Product code: ET107

Product Name: DEHYDRATED ALCOHOL, 200 PROOF, USP

Other means of identification

Synonyms: Absolute ethanol

Alcohol

Alcohol dehydrated Alcohol, anhydrous Alcool ethylique (French) Absolute Ethanol 200 proof

Ethanol

Ethyl alcohol anhydrous

Ethyl hydrate Ethyl hydroxide Fermentation alcohol Dehydrated Alcohol

Ethanol, undenatured 200 proof

Ethanol 200 proof

CAS #: 64-17-5
RTECS # KQ6300000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent. Perfuming agent. In pharmaceuticals. Inks. In organic synthesis. In

beverages.

Uses advised against No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 1A

Product code: ET107 Product name: DEHYDRATED 1/13
ALCOHOL, 200 PROOF, USP

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

Label elements

Danger

Hazard statements

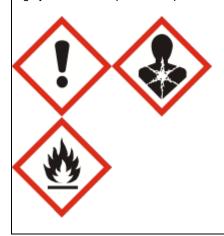
Causes serious eye irritation

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



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Can burn with an invisible flame

Causes mild skin irritation

Precautionary Statements - Prevention

Obtain special instructions before use

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

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

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

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — 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

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

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 skin irritation occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Product code: ET107 Product name: DEHYDRATED 2/13
ALCOHOL, 200 PROOF, USP

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Ethyl Alcohol 200 proof	64-17-5	100	*
64-17-5			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Causes eye irritation. May cause skin irritation. May cause irritation of respiratory tract.

Dyspnea (Difficulty breathing and shortness of breath). Central nervous system effects. Dizziness. Drowsiness. Headache. Ataxia. Staggering gait. Nausea. Vomiting. May cause

cardiovascular effects.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam.

Water spray.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide

Product code: ET107 Product name: DEHYDRATED 3/13
ALCOHOL, 200 PROOF, USP

Specific hazards:

Flammable. May be ignited by heat, sparks or flames. Material can burn with invisible flame. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact

with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may

be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways,

sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill

for later disposal.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste disposal

container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Product code: ET107 Product name: DEHYDRATED 4/13
ALCOHOL, 200 PROOF, USP

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Sensitive to light. Store in light-resistant containers. Keep away from heat and sources of ignition. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents. Acids. Alkali Metals. Halogens. caustics. isocyanates. Metals. Bases. Acid anhydrides. Acid chlorides. Hydrazine.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	1000 ppm TWA	1000 ppm TWA	1000 ppm STEL	None
Ethyl Alcohol 200 proof - 64-17-5	1900 mg/m ³ TWA	1900 mg/m ³ TWA		

Canada

Components	omponents Alberta		Components Alberta British Columbia		Ontario	Quebec
	1000 ppm TWA	1000 ppm STEL	1000 ppm STEL	1000 ppm TWAEV		
Ethyl Alcohol 200 proof - 64-17-5	1880 mg/m ³ TWA			1880 mg/m ³ TWAEV		

Australia and Mexico

Components	Australia	Mexico
Ethyl Alcohol 200 proof	1000 ppm TWA	1000 ppm TWA
64-17-5	1880 mg/m ³ TWA	1900 mg/m ³ TWA

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles. Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron. Long sleeved clothing. Gloves.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: ET107 Product name: DEHYDRATED 5 / 13
ALCOHOL, 200 PROOF, USP

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance:

Liquid. No information available Clear. Colorless.

Odor: Taste Molecular/Formula weight:

Mild. Pleasant. Alcoholic. Like wine or

whiskey. Ethereal.

Pungent. Burning. 46.07

Formula: Flash point (°C): Flashpoint (°C/°F): CH3CH2OH 12-14 °C/53.6-57.2 °F

15.8-18 °C/60.44-64.4 °F Lower Explosion Limit (%): **Upper Explosion Limit (%):**

Closed cup 19%

Open cup

Flash Point Tested according to:

Autoignition Temperature (°C/°F): :Ha Melting point/range(°C/°F):

363-426 °C/685.4-798.8 °F No information available -114.1-117.3 °C/-173.38-179.14 °F

Bulk density: Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

78-79 °C/172.4-174.2 °F No information available No information available

Density (g/cm3): Vapor pressure @ 20°C (kPa): Specific gravity:

0.789 @ 20 °C No information available 5.7

Evaporation rate: Vapor density: VOC content (g/L):

No information available 1.59 789

Partition coefficient Odor threshold (ppm): Viscosity:

No information available 5-10 (recognition) (n-octanol/water):

84 (tolerance) -0.31

Miscibility: Solubility:

Miscible with water Very soluble in water

Miscible with Acetone Miscible with Ether Miscible with Benzene

Miscible with glacial Acetic Acid Miscible with many organic solvents

10. STABILITY AND REACTIVITY

Reactivity

It can react vigorously, violently or explosively with oxidizers

When Ethanol comes in contact with Platinum or Sodium, it liberates flammable hydrogen gas

It can react vigorously or explosively with acid hydrides or acid chlorides

It reacts with alkali metals to liberate flammable hydrogen gas

It reacts with acetyl bromide to evolve hydrogen bromide

It reacts with ammona + silver nitrate to form silver nitride and silver fulminate

Ethyl alcohol can react with freshly cut/etched/scratched aluminum with the evolution of heat and release of hydrogen gas. The Ethyl alcohol has to be on the aluminum surface as it is being cut/scratched/etched

Chemical stability

Stability: Stable under recommended storage conditions

Hazardous polymerization does not occur **Possibility of Hazardous Reactions:**

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents. Acids. Alkali Metals. Halogens. caustics. isocyanates. Metals.

Bases. Acid anhydrides. Acid chlorides. Hydrazine.

Product code: ET107 6/13 Product name: DEHYDRATED ALCOHOL, 200 PROOF, USP

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. When heated to decomposition it emits acrid smoke and

irritating fumes.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Skin. Eyes. Inhalation.

Acute Toxicity

Component Information

Ethyl Alcohol 200 proof - 64-17-5

LD50/oral/rat = 7060 mg/kg Oral LD50 Rat

LD50/oral/mouse = 3450 mg/kg

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = 124.7 mg/L Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = 39000 mg/m³4 h

Other LD50 or LC50information = >60000 ppm Inhalation LC50 Mouse 1 h

5900 mg/m³Inhalation LC50 Rat 6 h

20000 ppm Inhalation LC50 Rat 10 h

5560 mg/kg Oral LD50 Guinea Pig

6300 mg/kg Oral LD50 Rabbit

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 7060mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 3450mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat mg/l (4-hr)

VALUE-Vapor = 124.7

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = 39 mg/l (4-hr)

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Product code: ET107 Product name: DEHYDRATED 7/13
ALCOHOL, 200 PROOF, USP

Symptoms

Skin Contact: Mildly to moderately irritating to the skin.

Eye Contact: Causes serious eye irritation. Causes moderate to severe eye irritation.

Inhalation May cause irritation of respiratory tract. Symptoms may include coughing and

shortness of breath. May cause nausea, and headache. It may affect

behavior/central nervous system (ataxia, general anesthetic, drowsiness). May affect respiration (respiratory depression). Inhalation of high concentrations of vapor may cause anesthetic effects. Inhalation of high concentrations of vapors may cause

dizziness or suffocation. May affect the brain.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May

cause gastritis. May cause loss of appetite. May cause flushed skin. May affect the cardiovascular system (change in heart rate). May affect the cardiovascular system

(hypotension or hypertension, tachycardia, dysrhythmias). It may affect behavior/central nervous system (excitation, mild euphoria, excessive talking, fatigue, headache, dizziness, drowsiness, staggaring gait, ataxia, hallucinations, slurred speech, amnesia, confusion, release of inhibitions, agressive behavior, convulsions, coma). May affect respiration (dyspnea, respiratory depression). It may affect the brain. May affect liver. May affect the blood. May affect the endocrine

system. It may affect the spleen. May affect urinary system (kidneys).

Aspiration hazard No information available

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

Chronic Toxicity Prolonged or repeated skin contact may cause dermatitis, and dryness and cracking

of the skin.. Prolonged or repeated ingestion may affect behavior/central nervous system. Prolonged or repeated ingestion may affect metabolism (cause anorexia, weight loss). Prolonged or repeated ingestion may affect the liver (fatty liver degeneration, cirrhosis of the liver. Prolonged or repeated ingestion may affect the

cardiovascular system. Prolonged or repeated inhalation may affect the liver.

Sensitization: No information available

Mutagenic Effects: May affect genetic material

Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects: Equivocal tumorigenic agent by Registery of Toxic Effects of Chemical Substances

(RTECS) criteria. Confirmed Animal Carcinogen with Unknown Relevance to

Humans.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
. ,	Animal Carcinogen with Unknown Relevance to Humans	Group 1 - Monograph 100E [2012] in alcoholic beverages Monograph 96 [2010] in alcoholic beverages		Present	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans (In alcoholic beverages)

Reproductive toxicity

May damage fertility or the unborn child

Reproductive Effects: Causes adverse reproductive effects.

Developmental Effects: May cause harm to the unborn child

May cause adverse developmental effects
Causes birth defects (teratogenic effects)

Teratogenic Effects: Causes birth defects (teratogenic effects)

Specific Target Organ Toxicity

STOT - single exposure respiratory system. central nervous system.

STOT - repeated exposure liver. central nervous system. Skin. Reproductive System. Target Organs: Skin. Liver. Central nervous system. Nervous system. Heart.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Ethyl Alcohol 200 proof - 64-17-5

Freshwater Fish Species Data: 12.0 - 16.0 mL/L LC50 Oncorhynchus mykiss 96 h static 1

13400 - 15100 mg/L LC50 Pimephales promelas 96 h flow-through 1

100 mg/L LC50 Pimephales promelas 96 h static 1

Water Flea Data: 9268 - 14221 mg/L LC50 Daphnia magna 48 h

10800 mg/L EC50 Daphnia magna 24 h 2 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

	Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ethyl	Alcohol 200 proof	None	None	None	None

14. TRANSPORT INFORMATION

Product code: ET107 Product name: DEHYDRATED 9/13
ALCOHOL, 200 PROOF, USP

14. TRANSPORT INFORMATION

DOT

UN-No: UN1170
Proper Shipping Name: Ethanol
Hazard Class: 3

Hazard Class: 3

Subsidiary Risk: Not applicable

Packing Group: II ERG No: 127

Marine Pollutant No data available DOT RQ (lbs): No information available

TDG (Canada)

UN-No: UN1170 Proper Shipping Name: Ethanol

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Description: No information available

ADR

UN-No: UN1170

Proper Shipping Name: Ethanol (Ethyl alcohol)

Hazard Class: 3 Packing Group: II

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC Tremcard No:No information available

IMO / IMDG

UN-No: UN1170

Proper Shipping Name: Ethanol (Ethyl alcohol)

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Description:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-E

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN1170

Proper Shipping Name: Ethanol (Ethyl alcohol)

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II

Classification Code: No information available Description: No information available

ICAO

UN-No: UN1170
Proper Shipping Name: Ethanol

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Product code: ET107 Product name: DEHYDRATED 10 / 13

14. TRANSPORT INFORMATION

Description: No information available

IATA

UN-No: UN1170 Proper Shipping Name: Ethanol

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group: II ERG Code: 3L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	CHINA	Australia	EINECS-No.
			(PICCS)			(AICS)	
Ethyl Alcohol 200 proof	Present	KE-13217	Present	(2)-202	Present	Present	Present 200-578-6

U.S. Regulations

Ethyl Alcohol 200 proof

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: Present

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

Louisana Reportable Quantity List for Pollutants: Present (listed as Volatile Organic Compounds)

California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1293

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
	_		Toxicity	Toxicity:
Ethyl Alcohol 200 proof	carcinogen (listed as	developmental toxicity	Not Listed	Not Listed
	Alcoholic beverages when	(Ethyl alcohol in alcoholic		
	associated with alcohol	beverages)		
	abuse)			

CERCLA/SARA

	•	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Ε	thyl Alcohol 200 proof	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ethyl Alcohol 200 proof	Not Applicable	Not Applicable

Canada

Product code: ET107 Product name: DEHYDRATED 11 / 13
ALCOHOL, 200 PROOF, USP

WHMIS hazard class:

B2 Flammable liquid D2B Toxic materials

Ethyl Alcohol 200 proof

B2 D2B

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -	
Ethyl Alcohol 200 proof	0.1 %	

Inventory

Components	Canada (DSL)	Canada (NDSL)
Ethyl Alcohol 200 proof	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory
		Reporting
Ethyl Alcohol 200 proof	Not listed	Not listed

EU Classification

R-phrase(s)

R11 - Highly flammable.

S -phrase(s)

S 7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking.

Components	Classification	Concentration Limits:	Safety Phrases
Ethyl Alcohol 200 proof	F; R11	No information	S7 S16

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

F - Highly flammable.



16. OTHER INFORMATION

Product code: ET107 Product name: DEHYDRATED ALCOHOL, 200 PROOF, USP

16. OTHER INFORMATION

Preparation Date:9/27/2013Revision Date:4/15/2015Prepared by:Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: ET107 Product name: DEHYDRATED 13 / 13





1/12

MATERIAL SAFETY DATA SHEET

NFPA HMIS Personal Protective Equipment



Health Hazard	2
Fire Hazard	3
Reactivity	0









,	See Section 8.

1. CHEMICAL PRODUCT A	ND COMPANY IDENTIFICATION
Product code:	ET107
Product Name:	DEHYDRATED ALCOHOL, 200 PROOF, USP
Chemical Name:	Ethyl alcohol
Synonyms:	Absolute ethanol
	Alcohol
	Alcohol dehydrated
	Alcohol, anhydrous
	Alcool ethylique (French)
	Absolute Ethanol 200 proof
	Ethanol
	Ethyl alcohol anhydrous
	Ethyl hydrate
	Ethyl hydroxide
	Fermentation alcohol
	Dehydrated Alcohol
	Ethanol, undenatured 200 proof
	Ethanol 200 proof
Recommended use:	Solvent. Perfuming agent. In pharmaceuticals. Inks. In organic synthesis. In
	beverages.
CAS #:	64-17-5
RTECS #	KQ6300000
Formula:	CH3CH2OH
CI#:	Not available
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.
	14422 South San Pedro St.
	Gardena, CA 90248
	(310) 516-8000
Order Online At:	https://www.spectrumchemical.com
Emergency Telephone Number:	CHEMTREC: 1-800-424-9300
Contact Person:	Regina Wachenheim (East Coast)
Contact Person:	Martin LaBenz (West Coast)

Product code: ET107 Product name: DEHYDRATED ALCOHOL, 200 PROOF, USP

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER FLAMMABLE!
Can burn with an invisible flame
WARNING! IRRITANT
Irritating to eyes
Irritating to skin

Odor: Mild. Pleasant. Alcoholic. Like wine or whiskey. Ethereal. Physical state: Liquid. **Appearance:**No information available

Color: Clear, Colorless.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Ingestion. Skin. Eyes. Inhalation.

Acute Potential Health Effects:

Skin Contact:

Mildly to moderately irritating to the skin.

Eye Contact:

Causes serious eye irritation. Moderate to severe eye irritation.

Inhalation

May cause irritation of respiratory tract. May cause central nervous system effects. It may affect the blood. It may affect the brain. Inhalation of vapors may cause dizziness or suffocation.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. May cause central nervous system effects. May affect respiration. May affect the blood. May affect the liver. It may affect the kidneys. May affect the cardiovascular system. It may affect the brain.

Chronic Potential Health Effects:

Component

Carcinogen Status:

Ethyl Alcohol 200 proof 64-17-5 (100)

A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans by ACGIH Group 1 - Carcinogenic to Humans by IARC (for Ethyl alcohol in alcoholic beverages)

Present by OSHA

Target Organs: Skin. Liver. Central nervous system. Nervous system. Heart.

Mutagenic Effects: May affect genetic material

Experiments with bacteria and/or yeast have shown mutagenic effects

Teratogenic Effects: Causes birth defects (teratogenic effects)

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

Product code: ET107 Product name: DEHYDRATED 2/12

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Ethyl Alcohol 200 proof	64-17-5	100

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F):	12-14 °C/53.6-57.2 °F
	15.8-18 °C/60.44-64.4 °F

Flash Point Tested according to:

Closed cup Open cup

Lower Explosion Limit (%):	3.3%
Upper Explosion Limit (%):	19%

Autoignition Temperature (°C/°F): 363-426 °C/685.4-798.8 °F

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam.

Water spray.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide

Product code: ET107 Product name: DEHYDRATED 3/12
ALCOHOL, 200 PROOF, USP

Specific hazards: Flammable

May be ignited by heat, sparks or flames Material can burn with invisible flame

Vapor may travel considerable distance to source of ignition

and flash back

Vapors may form explosive mixtures with air

Most vapors are heavier than air. They will spread along the

ground and collect in low or confined areas (sewers,

basements, tanks)

Container explosion may occur under fire conditions or when

heated

Fire may produce irritating, corrosive and/or toxic gases

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Specific Methods: Water mist may be used to cool closed containers. For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for Cleaning Up:

Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Storage

Product code: ET107 Product name: DEHYDRATED 4/12
ALCOHOL, 200 PROOF, USP

Technical Measures/Storage Conditions:

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Sensitive to light. Store in light-resistant containers. Keep away from heat and sources of ignition. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents. Acids. Alkali Metals. Halogens. caustics. isocyanates. Metals. Bases. Acid anhydrides. Acid chlorides. Hydrazine.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Personal Protective Equipment

Eye protection: Goggles. Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron. Long sleeved clothing. Gloves.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	1000 ppm TWA	1000 ppm TWA	1000 ppm STEL	None
Ethyl Alcohol 200 proof - 64-17-5	1900 mg/m ³ TWA	1900 mg/m ³ TWA		

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Ethyl Alcohol 200 proof	1000 ppm TWA	1000 ppm STEL	1000 ppm STEL	1000 ppm TWAEV
64-17-5	1880 mg/m ³ TWA			1880 mg/m ³ TWAEV

Australia and Mexico

Components	Australia	Mexico
Ethyl Alcohol 200 proof	1000 ppm TWA	1000 ppm TWA
64-17-5	1880 mg/m³ TWA	1900 mg/m ³ TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: ET107 Product name: DEHYDRATED 5/12

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Appearance:

Clear. Colorless. Liquid. No information available

Molecular/Formula weight: Odor: **Taste** 46.07

Mild. Pleasant. Alcoholic. Like wine or

whiskey. Ethereal.

Pungent. Burning.

Boiling point/range(°C/°F):

Vapor pressure @ 20°C (kPa):

78-79 °C/172.4-174.2 °F

No information available

Density (g/cm3):

5.7

Flash point (°C): Lower Explosion Limit (%): **Upper Explosion Limit (%):**

3.3%

Autoignition Temperature (°C/°F): Melting point/range(°C/°F):

363-426 °C/685.4-798.8 °F -114.1-117.3 °C/-173.38-179.14 °F

pH: Specific gravity:

No information available 0.789 @ 20 °C

Decomposition temperature(°C/°F): **Bulk density:**

No information available No information available

VOC content (g/L): **Evaporation rate:** Vapor density:

No information available 1.59

Odor threshold (ppm): Partition coefficient 5-10 (recognition) (n-octanol/water):

84 (tolerance) -0.31 789

Miscibility:

Miscible with water Miscible with Acetone Miscible with Ether Miscible with Benzene

Miscible with glacial Acetic Acid Miscible with many organic solvents

Solubility:

Very soluble in water

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Heat. Ignition sources. Incompatible materials. Conditions to avoid:

Oxidizing agents. Acids. Alkali Metals. Halogens. caustics. isocyanates. Metals. **Incompatible Materials:**

Bases. Acid anhydrides. Acid chlorides. Hydrazine.

Hazardous decomposition

products:

Carbon monoxide. Carbon dioxide. When heated to decomposition it emits acrid

smoke and irritating fumes.

Possibility of Hazardous

Reactions:

It can react vigorously, violently or explosively with oxidizers

When Ethanol comes in contact with Platinum or Sodium, it liberates flammable

hydrogen gas

It can react vigorously or explosively with acid hydrides or acid chlorides

It reacts with alkali metals to liberate flammable hydrogen gas It reacts with acetyl bromide to evolve hydrogen bromide

It reacts with ammona + silver nitrate to form silver nitride and silver fulminate

Ethyl alcohol can react with freshly cut/etched/scratched aluminum with the evolution of heat and release of hydrogen gas. The Ethyl alcohol has to be on the aluminum

surface as it is being cut/scratched/etched

Polymerization: Hazardous polymerisation does not occur

No information available Corrosivity:

Product code: ET107 6/12 **Product name: DEHYDRATED** ALCOHOL, 200 PROOF, USP

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Ethyl Alcohol 200 proof - 64-17-5

LD50/oral/rat = 7060 mg/kg Oral LD50 Rat

LD50/oral/mouse = 3450 mg/kg

LD50/dermal/rat = No information available **LD50/dermal/rabbit** = No information available

LC50/inhalation/rat = 124.7 mg/L Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = 39000 mg/m³ 4 h

Other LD50 or LC50information = >60000 ppm Inhalation LC50 Mouse 1 h

5900 mg/m³ Inhalation LC50 Rat 6 h 20000 ppm Inhalation LC50 Rat 10 h 5560 mg/kg Oral LD50 Guinea Pig 6300 mg/kg Oral LD50 Rabbit

Product Information

LC50/inhalation/rat 124.7 mg/l 4 h LC50/Inhalation/mouse 39000 mg/m³ 4 h LD50/dermal/rabbit No information available LD50/dermal/rat No information available LD50/oral/mouse = 3450mg/kg LD50/oral/rat = 7060mg/kg

Local Effects

Skin irritation: Mild skin irritation. Moderate skin irritation.

Eye irritation: Irritating to eyes. Moderate eye irritation.

Inhalation: May cause irritation of respiratory tract. Symptoms may include coughing and

shortness of breath. May cause nausea, and headache. It may affect

behavior/central nervous system (ataxia, general anesthetic, drowsiness). May affect respiration (respiratory depression). Inhalation of high concentrations of vapor may cause anesthetic effects. Inhalation of high concentrations of vapors may cause

dizziness or suffocation. May affect the brain.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May

cause gastritis. May cause loss of appetite. May cause flushed skin. May affect the cardiovascular system (change in heart rate). May affect the cardiovascular system

(hypotension or hypertension, tachycardia, dysrhythmias). It may affect behavior/central nervous system (excitation, mild euphoria, excessive talking, fatigue, headache, dizziness, drowsiness, staggaring gait, ataxia, hallucinations, slurred speech, amnesia, confusion, release of inhibitions, agressive behavior, convulsions, coma). May affect respiration (dyspnea, respiratory depression). It may affect the brain. May affect liver. May affect the blood. May affect the endocrine

system. It may affect the spleen. May affect urinary system (kidneys).

Sensitization: No information available

Chronic Toxicity

Product code: ET107 Product name: DEHYDRATED 7/12

Chronic Toxicity Prolonged or repeated skin contact may cause dermatitis, and dryness and cracking

of the skin.. Prolonged or repeated ingestion may affect behavior/central nervous system. Prolonged or repeated ingestion may affect metabolism (cause anorexia, weight loss). Prolonged or repeated ingestion may affect the liver (fatty liver degeneration, cirrhosis of the liver. Prolonged or repeated ingestion may affect the cardiovascular system. Prolonged or repeated inhalation may affect the liver.

Carcinogenic effects: Equivocal tumorigenic agent by Registery of Toxic Effects of Chemical Substances

(RTECS) criteria. Confirmed Animal Carcinogen with Unknown Relevance to

Humans.

Components	NTP	IARC		ACGIH - Carcinogens		Australia - Notifiable
			Carcinogens		Carcinogenic	Carcinogenic
					Substances	Substances
Ethyl Alcohol 200 proof	Not listed	Group 1 -	Present	A3 Confirmed Animal	Not listed	Not listed
		Monograph		Carcinogen with		
		100E [2012] in		Unknown Relevance to		
		alcoholic		Humans		
		beverages				
		Monograph 96				
		[2010] in				
		alcoholic				
		beverages				

Mutagenic Effects: May affect genetic material

Experiments with bacteria and/or yeast have shown mutagenic effects

Reproductive Effects: Causes adverse reproductive effects

May cause adverse developmental effects May cause harm to the unborn child

Teratogenic Effects: Causes birth defects (teratogenic effects).

Target Organs: Skin. Liver. Central nervous system. Nervous system. Heart.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and

the ecotoxicology of similar products

Ecotoxicity effects: Aquatic environment.

Aquatic toxicity:

Water Flea Data:

Ethyl Alcohol 200 proof - 64-17-5

Freshwater Fish Species Data: 12.0 - 16.0 mL/L LC50 Oncorhynchus mykiss 96 h static 1

13400 - 15100 mg/L LC50 Pimephales promelas 96 h flow-through 1

100 mg/L LC50 Pimephales promelas 96 h static 1 9268 - 14221 mg/L LC50 Daphnia magna 48 h

10800 mg/L EC50 Daphnia magna 24 h 2 mg/L EC50 Daphnia magna 48 h

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Product code: ET107 Product name: DEHYDRATED 8 / 12

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ethyl Alcohol 200 proof	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1170
Proper Shipping Name: Ethanol
Hazard Class: 3
Packing Group: II

Subsidiary Risk: Not applicable
Marine Pollutant No data available

ERG No: 127

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: UN1170
Proper Shipping Name: Ethanol
Hazard Class: 3
Packing Group: II

Subsidiary Risk:No information availableDescription:No information available

ADR

UN-No: UN1170

Proper Shipping Name: Ethanol (Ethyl alcohol)

Hazard Class: 3
Packing Group: ||

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC Tremcard No:No information available

IMO / IMDG

UN-No: UN1170

Proper Shipping Name: Ethanol (Ethyl alcohol)

Hazard Class: 3 Packing Group: II

Subsidiary Risk:No information availableDescription:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-E

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN1170

Product code: ET107 Product name: DEHYDRATED 9/12

Proper Shipping Name: Ethanol (Ethyl alcohol)

Hazard Class: 3
Packing Group: II
Subsidiary Risk: 3

Classification Code: No information available Description: No information available

ICAO

UN-No: UN1170
Proper Shipping Name: Ethanol

Hazard Class: 3 Packing Group: II

Subsidiary Risk:No information availableDescription:No information available

IATA

UN-No: UN1170 Proper Shipping Name: Ethanol

Hazard Class: 3 Packing Group: II

Subsidiary Risk: No information available

ERG Code: 3L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	Philippines	KOREA KECL	Japan ENCS	CHINA	Australia	EINECS-No.
		(PICCS)				(AICS)	
Ethyl Alcohol 200 proof	Present	Present	KE-13217	(2)-202	Present	Present	Present 200-578-6

U.S. Regulations

Ethyl Alcohol 200 proof

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: Present

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

Louisana Reportable Quantity List for Pollutants: Present (listed as Volatile Organic Compounds)

California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1293

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
	_	-	Toxicity	Toxicity:
	Alcoholic beverages when	developmental toxicity (Ethyl alcohol in alcoholic beverages)		Not Listed
	abuse)	5 /		

CERCLA/SARA

Product code: ET107 Product name: DEHYDRATED 10 / 12 ALCOHOL, 200 PROOF, USP

Components	CERCLA - Hazardous Substances and their	Section 302 Extremely Hazardous	Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
Ethyl Alcohol 200 proof	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ethyl Alcohol 200 proof	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

B2 Flammable liquid D2B Toxic materials

Ethyl Alcohol 200 proof

B2 D2B

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Ethyl Alcohol 200 proof	0.1 %

Inventory

Components	Canada (DSL)	Canada (NDSL)
Ethyl Alcohol 200 proof	Present	Not Listed

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory
		Reporting
Ethyl Alcohol 200 proof	Not listed	Not listed

EU Classification

R-phrase(s)

R11 - Highly flammable.

S -phrase(s)

S 7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking.

Components	Classification	Concentration Limits:	Safety Phrases
Ethyl Alcohol 200 proof	F; R11	No information	S7 S16

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

F - Highly flammable.

Product code: ET107 Product name: DEHYDRATED ALCOHOL, 200 PROOF, USP



16. OTHER INFORMATION

Product code: ET107

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 14-Feb-2014

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Product name: DEHYDRATED ALCOHOL, 200 PROOF, USP