



# SAFETY DATA SHEET

Preparation Date: 2/11/2014 Revision date 4/1/2019 Revision Number: G3

### 1. IDENTIFICATION

**Product identifier** 

Product code: P-575

PAN INDICATOR, 0.1 PERCENT SOLUTION IN ETHANOL

Other means of identification

**Synonyms:** No information available

CAS #: Mixture

RTECS # KQ6300000 (For Ethyl alcohol)

QM4500000 (For PAN reagent)

CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemical Mfg. Corp

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:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

# Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

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

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Causes damage to organs through prolonged or repeated exposure Highly flammable liquid and vapor



#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Causes mild skin irritation

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

Obtain special instructions before use

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

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

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/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 person to fresh air and keep comfortable for breathing.

#### **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

Component	CAS No	Weight-%
Ethyl Alcohol 200 proof	64-17-5	94.9
Water	7732-18-5	5
P.A.N	85-85-8	0.1

### 4. FIRST AID MEASURES

# First aid measures

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General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

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

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

Eye Contact: Flush eyes 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.

**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,

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corrosive and/or toxic gases.

**Special Protective Actions for Firefighters** 

Specific Methods: No information available

**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 product from entering

drains. 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), then place in a suitable chemical waste container.

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

#### **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 segregated and approved area. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents

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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**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA	1000 ppm TWA	1000 ppm STEL	None
		1900 mg/m <sup>3</sup> TWA	1900 mg/m <sup>3</sup> TWA		
Water	7732-18-5	None	None	None	None
P.A.N	85-85-8	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA 1880 mg/m³ TWA	1000 ppm STEL	1000 ppm STEL	None
Water	7732-18-5	None	None	None	None
P.A.N	85-85-8	None	None	None	None

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Ethyl Alcohol 200 proof	64-17-5	1000 ppm TWA	1000 ppm TWA
		1880 mg/m³ TWA	1900 mg/m³ TWA
Water	7732-18-5	None	None
P.A.N	85-85-8	None	None

### 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

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**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

Physical state: Appearance: Color:

Liquid No information available. Clear. Reddish-orange.

Odor: Taste Formula

Pleasant. Alcoholic. Mild. Ethereal. Pungent. Burning.

Like wine or whiskey.

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flash point (°C):

No information available no data available 17 (for Ethyl alcohol 190 proof)

Flashpoint (°C/°F): Flash Point Tested according to: Autoignition Temperature (°C/°F):

17 °C/63 °F Closed cup 363 °C/685.4 °F (For Ethyl alcohol 200

Proof)

No information available

Lower Explosion Limit (%): Upper Explosion Limit (%): Melting point/range(°C/°F):

3.3% (For Ethyl alcohol 200 proof) 19% (For Ethyl alcohol 200 proof) -114.1-117.3 °C/-173.38-179.14 °F (For Ethyl Alcohol 200 proof)

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

No information available 79 °C/174.2 °F No information available

Density (g/cm3): Specific gravity: pl

No information available 0.8 @ 20 °C No information available

Vapor pressure @ 20°C (kPa):Evaporation rate:Vapor density:5.93No information available1.59 (For Ethyl alcohol 200 proof)

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

84 (tolerance) No information available

Viscosity: Miscibility: Solubility:

No information available 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

When Ethanol comes in contact with 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 ammonia + 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

Ethyl Alcohol reacts vigorously with acetyl chloride.

Ethyl alcohol reacts with silver (I) oxide + ammonia or hydrazine to form silver nitride and silver fulminate

Ethanol ignites and then explodes on contact with the following compounds: acetic anhydride + sodium hydrosulfate, disulfuric

acid + nitric acid, phosphorus (III) oxide, platinum, potassium tert-butoxide + acids

Ethanol rapidly absorbs moisture from the air. Can react vigorously/explosively with oxidizers. Ethanol can react

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vigorously/explosively with the following: ammonium hydroxide & silver oxide, chlorine or chlorine oxides, perchlorates (barium perchlorate, chloryl perchlorate, magnesium perchlorate (forms ethyl perchlorate), nitrosyl perchlorate, potassium perchlorate, silver perchlorate, uranyl perchlorate), acetic anhydride, acetyl bromide (evolves hydrogen bromide), acetyl chloride, aluminum sesquibromide ethylate, bromine pentafluoride, calcium hypochlorite, chromic anhydride, , chromium trioxide, chromyl chloride, cyanuric acid + water, dichloromethane + sulfuric acid + nitrate (or) nitrite, manganese perchlorate + 2,2-dimethoxy propane, dioxygen difluoride, disulfuryl difluoride, fluorine nitrate, hydrogen peroxide, iodine heptafluoride, manganese heptoxide, iodine + methanol + mercuric oxide, iodine + Phosphorus (forms ethane iodide), mercuric nitrate, nitric acid, perchloric acid, permanganic acid, peroxodisulfuric acid, platinum black, potassium dioxide, potassium permanganate, potassium superoxide, potassium tert-butoxide, ruthenium(VIII) oxide, silver +nitric acid (forms silver fulminate), silver nitrate (forms ethyl nitrate), silver peroxide, sodium hydrazide, hydrogen peroxide + sulfuric acid, sulfuric acid + permanganates, uranium hexafluoride, sulfuric acid + sodium dichromate, tetrachlorisilane + water, silver & nitric acid, tetraphosphorus hexaoxide

Chemical stability

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**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

**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** 

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

ATEmix (oral) 7432 mg/kg ATEmix (inhalation-vapor) 131.26 mg/l

**Component Information** 

Ethyl Alcohol 200 proof	
CAS No	64-17-5

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

LD50/oral/mouse = 3450 mg/kg Oral LD50 Mouse

**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/m<sup>3</sup> 4 h

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

5900 mg/m<sup>3</sup> 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

#### Water

CAS No

7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat

LD50/oral/mouse = No information available

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

LD50/dermal/rat = No information available

**LC50/inhalation/rat** = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

#### P.A.N

CAS No

85-85-8

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

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

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

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Tox = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

Value - Acute Tox = No information available

LD50/dermal/rat

VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

VALUE - Dust/Mist = No information available

Symptoms

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**Skin Contact:** Mildly to moderately irritating to the skin.

**Eye Contact:** Causes serious 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.

**Sensitization:** No information available.

Mutagenic Effects: For Ethyl alcohol:

May affect genetic material

Experiments with bacteria and/or yeast have shown mutagenic effects

Cytogenic analysis - hamster ovary Cytogenic Analysis (Hamster embryo) Cytogenic analysis - human leukocyte Cytogenic Analysis: human lymphocyte Sister Chromatid Exchange - Hamster ovary Sister Chromatid Exchange (human lymphocyte)

Carcinogenic effects: For Ethyl Alcohol:. Equivocal tumorigenic agent by Registery of Toxic Effects of

Chemical Substances (RTECS) criteria. Confirmed Animal Carcinogen with

Unknown Relevance to Humans.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Ethyl Alcohol 200 proof	64-17-5	Monograph 100E [2012] in alcoholic	Animal	Not listed	Present	Not listed	Not listed

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		Monograph 96 [2010] in alcoholic beverages	Humans				
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
P.A.N	85-85-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

May damage fertility or the unborn child

**Reproductive Effects:** For Ethyl alcohol:

Causes adverse reproductive effects

**Developmental Effects:** For Ethyl alcohol:

May cause adverse developmental effects

May cause harm to the unborn child

Teratogenic Effects: For Ethyl alcohol:

Causes birth defects (teratogenic effects)

**Specific Target Organ Toxicity** 

**STOT - single exposure** respiratory system. central nervous system.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**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

Fish 12.0 - 16.0 mL/L LC50 Oncorhynchus mykiss 96 h static 1 100 mg/L LC50

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

promelas 96 h flow-through 1

Crustacea 9268 - 14221 mg/L LC50 Daphnia magna 48 h 2 mg/L EC50 Daphnia magna 48 h

10800 mg/L EC50 Daphnia magna 24 h

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo 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.

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### Contaminated packaging:

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

Component	CAS No	RCRA - F Series	RCRA - K Series	RCRA - P Series	RCRA - U Series
		Wastes	Wastes	Wastes	Wastes
Ethyl Alcohol 200 proof	64-17-5	None	None	None	None
Water	7732-18-5	None	None	None	None
P.A.N	85-85-8	None	None	None	None

### 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN1170

Proper Shipping Name: Ethanol solution

Hazard Class 3

Subsidiary Class No information available

Packing group: || Emergency Response Guide 127

Number

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

**Special Provisions** 24, IB2, T4, TP1

Symbol(s): No information available

**Description:** UN1170, ETHANOL SOLUTION, 3, II

TDG (Canada)

**UN-No:** UN1170

Proper Shipping Name: Ethanol solution

Hazard Class 3

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

**Description:** UN1170, ETHANOL SOLUTION, 3, II

**ADR** 

UN Number UN1170

Proper Shipping Name: Ethanol solution

Transport hazard class(es) 3
Packing group ||

Subsidiary Risk: No information available

Special Provisions 144, 601

**Description:** UN1170, ETHANOL SOLUTION, 3, II

**IMDG** 

**UN-No:** UN1170

Proper Shipping Name: Ethanol solution

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-E Special Provisions 144

**Description** UN1170, ETHANOL SOLUTION, 3, II

**RID** 

**UN Number** UN1170

Proper Shipping Name: Ethanol solution

Transport hazard class(es) 3

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Subsidiary Risk: 3
Packing group

Special Provisions 144, 601

**Description:** UN1170, ETHANOL SOLUTION, 3, II

ICAO (air)

**UN-No:** UN1170

Proper Shipping Name: Ethanol solution

Hazard Class 3

Subsidiary Risk: No information available

Packing Group:

**Description:** UN1170, ETHANOL SOLUTION, 3, II

Special Provisions A58, A180, A3

IATA

UN Number UN1170

Proper Shipping Name: Ethanol solution

Transport hazard class(es) 3

Subsidiary Risk: No information available

Packing group II Precautionary Statements - 3L

Response

Special Provisions No information available

**Description:** UN1170, ETHANOL SOLUTION, 3, II

#### 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Ethyl Alcohol 200 proof	64-17-5	Present(ACTI VE)	KE-13217	Present	(2)-202	Present	Present	Present 200-578-6
Water	7732-18-5	PresentACTIV E	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
P.A.N	85-85-8	PresentACTIV E	Not present	Not present	Not present	Present	Present	Present 201-637-9

## **U.S. Regulations**

Ethyl Alcohol 200 proof

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 0844

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

FDA - 21 CFR - Total Food Additives 169.175, 169.176, 169.177, 169.181, 172.340, 172.560, 172.580, 175.105, 176.180,

- List Sourced from EAFUS 176.200, 177.1200, 177.1650, 178.1010, 184.1293, 73.30, 73.345, 73.615

#### 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 can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

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

MARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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Component	CAS No	Carcinogen		Male Reproductive Toxicity	Female Reproductive Toxicity:
Ethyl Alcohol 200 proof	64-17-5	carcinogen (Ethanol in alcoholic beverages)	developmental toxicity (Ethyl alcohol in alcoholic beverages)	Not Listed	Not Listed
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
P.A.N	85-85-8	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Ethyl Alcohol 200 proof	64-17-5	None	None	None	None	None
Water	7732-18-5	None	None	None	None	None
P.A.N	85-85-8	None	None	None	None	None

### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ethyl Alcohol 200 proof	64-17-5	Not Applicable	Not Applicable
Water	7732-18-5	Not Applicable	Not Applicable
P.A.N	85-85-8	Not Applicable	Not Applicable

### Canada

# WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Ethyl Alcohol 200 proof 64-17-5 (94.9)

Water 7732-18-5 (5) WHMIS 2015 Hazard Classification

Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.; Serious Eye Damage/Eye Irritation - Category 2B: H320 Causes eye irritation.

Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
Ethyl Alcohol 200 proof	64-17-5	Present	Not Listed
Water	7732-18-5	Present	Not Listed
P.A.N	85-85-8	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Ethyl Alcohol 200 proof	64-17-5	Not listed
Water	7732-18-5	Not listed

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P.A.N	85-85-8	Not listed	
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject	
		to Mandatory Reporting	
Ethyl Alcohol 200 proof	64-17-5	Not listed	
Water	7732-18-5	Not listed	
P.A.N	85-85-8	Not listed	

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Ethyl Alcohol 200 proof	64-17-5	Flammable liquids - Flam. Liq. 2: H225
		Highly flammable liquid and
		vapour.603-002-00-5
Water	7732-18-5	
P.A.N	85-85-8	

### EU - CLP (1272/2008)

# R-phrase(s)

R11 - Highly flammable

# S -phrase(s)

S 7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Ethyl Alcohol 200 proof	64-17-5	F; R11	No information	S(2) S7 S16
Water	7732-18-5		No information	
P.A.N	85-85-8		No information	

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

# Indication of danger:

F - Highly flammable



### **16. OTHER INFORMATION**

Preparation Date: 2/11/2014
Revision date 4/1/2019
Prepared by: Sonia Owen

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

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**End of Safety Data Sheet** 

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