

# **SAFETY DATA SHEET**

Issuing Date 08-Jun-2010 Revision Date 08-Jan-2016 Revision Number 2

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name 70% Ethanol

Other means of identification

Product Code(s) E505 UN/ID no. 1170

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use For Further Manufacturing Use Only.
Uses advised against Not for Human or Animal Drug Use

Details of the supplier of the safety data sheet

Company AddressManufacturer AddressVWR International, LLCVWR International, LLCRadnor Corporate Center28600 Fountain Parkway100 Matsonford RoadSolon, Ohio 44139

Radnor, PA 19087-8660

Company Phone Number 1-800-448-4442 E-mail Address info@amresco-inc.com

**Emergency Telephone Number** 

Emergency Telephone Number Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Classification

### **OSHA Regulatory Status**

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

| Serious Eye Damage/Eye Irritation                | Category 2 |
|--|------------|
| Specific target organ toxicity (single exposure) | Category 1 |
| Flammable liquids                                | Category 1 |

#### Label elements

#### **Emergency Overview**

#### Danger

#### Hazard statements

H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation

H370 - Causes damage to organs



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Appearance Colorless Physical State Liquid Odor Mild,rather pleasant,like wine or whiskey

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

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

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

IF exposed: Call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

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

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not regulated

### Other Information

• May be harmful if swallowed

Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No  | EC No.    | Weight % | Trade Secret   |
|---------------|---------|-----------|----------|----------------|
| Ethanol       | 64-17-5 | 200-578-6 | 69-71    | Not applicable |
| Methanol      | 67-56-1 | 200-659-6 | 0-3      | Not applicable |

#### 4. FIRST AID MEASURES

### **First Aid Measures**

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

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

shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth.

# Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Dry chemical, CO2, appropriate foam. Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media No information available.

#### Specific Hazards Arising from the Chemical

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### **Protective Equipment and Precautions 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 protection Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area

and wash spill site after material pickup is complete. Use non-sparking tools and

equipment.

#### 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Handle in accordance with good industrial hygiene and safety practice. Keep away from

sources of ignition.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

sources of ignition-no smoking.

Incompatible Products Oxidizing agents. Peroxides. Acids. Anhydrides. Acid chlorides. Alkali metals. Ammonia.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

| Chemical Name | ACGIH TLV     | OSHA PEL                    | NIOSH IDLH                  |
|---------------|---------------|-----------------------------|-----------------------------|
| Ethanol       | 1000 ppm STEL | TWA: 1000 ppm               | IDLH: 3300 ppm              |
| 64-17-5       |               | TWA: 1900 mg/m <sup>3</sup> | TWA: 1000 ppm               |
|               |               | -                           | TWA: 1900 mg/m <sup>3</sup> |
| Methanol      | 250 ppm STEL  | TWA: 200 ppm                | IDLH: 6000 ppm              |
| 67-56-1       | TWA: 200 ppm  | TWA: 260 mg/m <sup>3</sup>  | TWA: 200 ppm                |
|               |               | _                           | TWA: 260 mg/m <sup>3</sup>  |
|               |               |                             | STEL: 250 ppm               |
|               |               |                             | STEL: 325 mg/m <sup>3</sup> |

**Appropriate engineering controls** 

Engineering Measures Showers

Eyewash stations Ventilation systems.

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

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Liquid

AppearanceColorlessOdorMild,rather pleasant,like

wine or whiskey

ColorNo information availableOdor ThresholdNo information available

Property
pH Values
No information available

pH Melting point/freezing point

Boiling Point/Range No information available

Flash Point (High in °C) >14 °C

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor Density No information available **Specific Gravity** No information available Water Solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available No information available Kinematic viscosity Dynamic viscosity No information available No information available **Explosive Properties Oxidizing Properties** No information available

#### Other Information

Softening PointNo information availableMolecular WeightNo information availableVOC ContentNo information availableDensityNo information availableBulk DensityNo information available

#### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** 

None under normal processing.

**Conditions to Avoid** 

Keep away from sources of ignition-no smoking.

**Incompatible Materials** 

Oxidizing agents. Peroxides. Acids. Anhydrides. Acid chlorides. Alkali metals. Ammonia.

**Hazardous Decomposition Products** 

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information Risk of serious damage to eyes Harmful if swallowed,inhaled,or absorbed through skin

**Inhalation** There is no data available for this product.

**Eye Contact** There is no data available for this product.

**Skin Contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

| Chemical Name | LD50 Oral          | LD50 Dermal              | LC50 Inhalation               |
|---------------|--------------------|--------------------------|-------------------------------|
| Ethanol       | = 7060 mg/kg (Rat) | -                        | = 124.7 mg/L (Rat) 4 h        |
| 64-17-5       |                    |                          |                               |
| Methanol      | = 6200 mg/kg (Rat) | = 15800 mg/kg ( Rabbit ) | = 22500 ppm (Rat) 8 h = 64000 |
| 67-56-1       |                    |                          | ppm (Rat)4h                   |

#### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization** No information available. **Mutagenic Effects** No information available.

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

| Chemical Name | ACGIH | IARC    | NTP   | OSHA |
|---------------|-------|---------|-------|------|
| Ethanol       | A3    | Group 1 | Known | X    |
| 64-17-5       |       |         |       |      |
| Methanol      | -     | -       | -     | -    |
| 67-56-1       |       |         |       |      |

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

**Chronic Toxicity** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as

alcoholic beverage.

Target Organ Effects Nerves, Eyes, Kidneys, Heart, Cardiovascular system, Gastrointestinal tract (GI).

**Aspiration hazard** No information available.

Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

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

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Toxicity to Fish                | Crustacea                        |
|---------------|----------------------|---------------------------------|----------------------------------|
| Ethanol       | -                    | 13400 - 15100: 96 h Pimephales  | 9268 - 14221: 48 h Daphnia magna |
| 64-17-5       |                      | promelas mg/L LC50 flow-through | mg/L LC50 2: 48 h Daphnia magna  |

|          | 12.0 - 16.0: 96 h Oncorhynchus mg/L EC50 Static 10800: 24 h |
|----------|---|
|          | mykiss mL/L LC50 static 100: 96 h Daphnia magna mg/L EC50   |
|          | Pimephales promelas mg/L LC50                               |
|          | static  |
| Methanol | - 100: 96 h Pimephales promelas -                           |
| 67-56-1  | mg/L LC50 static 19500 - 20700: 96                          |
|          | h Oncorhynchus mykiss mg/L LC50                             |
|          | flow-through 28200: 96 h                                    |
|          | Pimephales promelas mg/L LC50                               |
|          | flow-through 18 - 20: 96 h                                  |
|          | Oncorhynchus mykiss mL/L LC50                               |
|          | static 13500 - 17600: 96 h Lepomis                          |
|          | macrochirus mg/L LC50                                       |
|          | flow-through  |

# Persistence and Degradability

No information available.

# **Bioaccumulation/Accumulation**

No information available.

| Chemical Name | Partition coefficient |
|---------------|-----------------------|
| Ethanol       | -0.32                 |
| 64-17-5       |                       |
| Methanol      | -0.77                 |
| 67-56-1       |                       |

Other Adverse Effects No information available

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

| Chemical Name | RCRA | RCRA - Basis for Listing  | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---------------|------|---------------------------|------------------------|------------------------|
| Ethanol       | -    | -                         | -                      | -                      |
| 64-17-5       |      |                           |                        |                        |
| Methanol      | -    | Included in waste stream: | -                      | Ignitable waste        |
| 67-56-1       |      | F039                      |                        | _                      |

| Chemical Name | RCRA - Halogenated<br>Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---------------|---|------------------------|------------------------|------------------------|
| Ethanol       | -                                       | -                      | -                      | -                      |
| 64-17-5       |   |                        |                        |                        |
| Methanol      | -                                       | -                      | -                      | -                      |
| 67-56-1       |   |                        |                        |                        |

| Chemical Name       | California Hazardous Waste Status |
|---------------------|-----------------------------------|
| Ethanol<br>64-17-5  | Toxic; Ignitable                  |
| Methanol<br>67-56-1 | Toxic; Ignitable                  |

# 14. TRANSPORT INFORMATION

DOT

**UN/ID no.** 1170

Proper shipping name Ethanol Solution

Hazard Class 3 Packing Group II

IATA

**UN/ID no.** 1170

Proper shipping name Ethanol Solution

Hazard Class 3
Packing Group ||

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

**ENCS** Does not Comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

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 Commercial Chemical Substances/EU 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

AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Component         | SARA 313 - Threshold Values % |
|-------------------|-------------------------------|
| Ethanol           | -                             |
| 64-17-5 ( 69-71 ) |                               |
| Methanol          | 1.0                           |
| 67-56-1 ( 0-3 )   |                               |

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

### **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)

| Chemical Name       | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|---------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Ethanol<br>64-17-5  | -                              | -                      | -                         | -                             |
| Methanol<br>67-56-1 | -                              | -                      | -                         | -                             |

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances | RQ |
|---------------|--------------------------|--------------------------------|----|
|               |                          | RQs                            |    |

| Ethanol<br>64-17-5  | -       | - | -  |
|---------------------|---------|---|--|
| Methanol<br>67-56-1 | 5000 lb | - | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

# U.S. State Regulations

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name      | California Prop. 65        |  |
|--------------------|----------------------------|--|
| Ethanol - 64-17-5  | hanol - 64-17-5 Carcinogen |  |
|                    | Developmental              |  |
| Methanol - 67-56-1 | Developmental              |  |

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

| Chemical Name       | New Jersey | Massachusetts | Pennsylvania |
|---------------------|------------|---------------|--------------|
| Ethanol<br>64-17-5  | X          | X             | X            |
| Methanol<br>67-56-1 | Х          | Х             | X            |

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

EPA Pesticide Registration Number Not regulated

# **16. OTHER INFORMATION**

Issuing Date08-Jun-2010Revision Date08-Jan-2016

**Revision Note** 

No information available

**Disclaimer** 

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.

**End of Safety Data Sheet**