



# Material Safety Data Sheet

## 1. Product and Company Identification

Product name : **Ethyl Alcohol**

Chemical formula : C<sub>2</sub>H<sub>6</sub>O

Synonyms : Ethanol; Grain Alcohol; Anhydrol; Methyl Carbinol

Company : Specialty Gases of America, Inc  
6055 Brent Dr.  
Toledo, OH 43611

Telephone : 419-729-7732

Emergency : 800-424-9300

## 2. Composition/Information on Ingredients

Components	CAS Number	% Volume
Ethanol	64-17-5	99+%

## 3. Hazards Identification

### Emergency Overview

Flammable liquid and vapor.  
May cause irritation to eyes, skin, and mucous membranes.  
May cause irritation to respiratory tract.

### Potential Health Effects

Inhalation : Inhalation can cause headache, nausea, dizziness, weakness, loss of appetite, and lassitude. Symptoms include intoxication, mental excitement, drowsiness, impaired vision, muscular incoordination, and narcosis. Irritation to mucous membranes, and upper respiratory tract.

Eye contact : Irritation to eyes.

Skin contact : Not identified as primary route of entry.

Ingestion : Possible central nervous system depression.

Chronic Health Hazard : Possible dermatitis from skin contact.

## 4. First Aid Measures

General advice : None.

Eye contact : Do not allow victim to rub or keep eyes tightly shut. Immediately flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes. Seek medical attention as soon as possible.

Skin contact : Immediately remove contaminated clothing. Rinse the affected area with flooding amount of water and then wash it with soap and water.

Ingestion : Never give anything by mouth to an unconscious person. Contact a poison control center. Unless the poison control center advises otherwise, have the conscious and alert person drink 1 to 2 glasses of water to dilute. Induce

Inhalation : vomiting.  
: Immediately remove victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration.

## 5. Fire-Fighting Measures

Suitable extinguishing media : Do not extinguish burning gas if flow cannot be shut off immediately. Carbon dioxide, foam, or dry chemical.  
Specific hazards : Dangerous fire hazard and moderate explosion hazard when heated.  
Special protective equipment for fire-fighters : Wear self contained breathing apparatus and full protective clothing. Keep fire exposed cylinders cool with water spray. If possible, stop the product flow. For massive fire use unmanned hose holder or monitor nozzles, withdraw from area and let fire burn.

## 6. Accidental Release Measures

Personal precautions : None.  
Environmental precautions : None.  
Methods for cleaning up : Evacuate and ventilate area. Shut off source if possible and remove source of heat. Absorb with sand or vermiculite and place in closed containers for disposal.  
Additional advice : None.

## 7. Handling and Storage

### Handling

Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.

### Storage

Store in well ventilated areas. Keep valve protection cap on cylinders when not in use. Storage should be suitable for an OSHA 1B flammable liquid.

## 8. Exposure Controls / Personal Protection

### Engineering measures

Provide adequate general and local exhaust ventilation to maintain concentrations below exposure and flammable limits.

### Personal protective equipment

Respiratory protection : Use a self-contained breathing apparatus in case of emergency or non-routine use.  
Hand protection : None.  
Eye protection : Safety glasses. A safety shower and eyewash station should be readily available.  
Skin and body protection : Wear suitable protective clothing and safety shoes when handling cylinders.  
Remarks : None.

## 9. Physical and Chemical Properties

Form : Liquid.  
Color : Colorless.  
Odor : Pleasant aromatic odor.  
Vapor pressure : 44 mmHg @ 20 C

Vapor density : 1.6 (Air = 1)  
Boiling point : 78 C  
Water solubility : Complete @ 20 C  
Specific gravity : 0.794 @ 15.5 C (H2O = 1)  
Evaporation rate : 1.4 (CCl4 = 1)

## 10. Stability and Reactivity

Stability : Stable under normal conditions.  
Conditions to avoid : Storage in poorly ventilated areas. Storage near a heat source.  
Materials to avoid : Strong oxidizing agents. It also reacts with alkali metals, strong nitrates, perchlorides, silver and potassium compounds.  
Hazardous decomposition products : Toxic carbon monoxide and nitrogen oxides may be given off.

## 11. Toxicological Information

### Acute Health Hazard

Ingestion : Not available.  
Inhalation : Not available.  
Skin : Not available.

## 12. Ecological Information

No adverse ecological effects are expected.

## 13. Disposal Considerations

Waste from residues / unused products : Dispose of non-refillable cylinders in accordance with federal, state and local regulations. Allow gas to vent slowly to atmosphere in an unconfined area or exhaust hood. If the cylinders are refillable type, return cylinders to supplier with any valve outlet plugs or caps secured and valve protection caps in place.  
Contaminated packaging : Return cylinder to supplier.

## 14. Transport Information

### DOT (US only)

Proper shipping name : Ethanol  
Class : 3  
UN/ID No. : UN1170  
Labeling : Flammable Liquid

### Further information

Cylinders should be transported in a secure upright position in a well ventilated truck.

## 15. Regulatory Information

### OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es)

Material is not listed in appendix A of 29 CFR 1910.119 as highly hazardous chemical.

### TCSA

Material is listed in TSCA inventory.

SARA

The threshold planning quantity for material is 10000 lbs.

Number in Annex 1 of DIR 67/548

Not listed in annex 1.

**16. Other Information**

Prepared by : Specialty Gases of America, Inc.

For additional information, please visit our website at [www.americangasgroup.com](http://www.americangasgroup.com).