

# Longshore Safety Tip

Part 2 of a 3-Part GHS Series. Look for Part 3 Next Week.

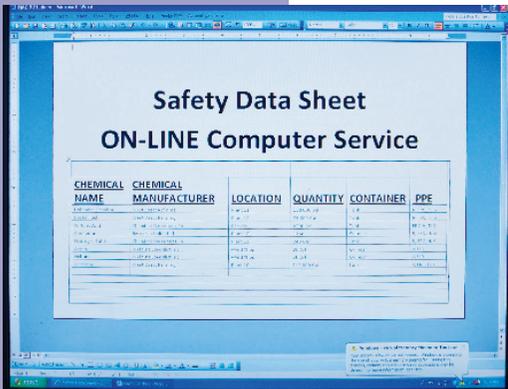
July 2013

## GHS: **NEW** Safety Data Sheets

### What is an SDS?

A Safety Data Sheet, or **SDS**, is a document to communicate the hazards and safe handling of a chemical. You are already familiar with the term MSDS, or Material Safety Data Sheet. Because

OSHA's Hazard Communication ruling adopted the new Globally Harmonized System of Classification and Labeling of Chemicals, better known as GHS, this term is now being replaced with the term "Safety Data Sheet, or SDS."



The SDS is a vital reference tool where you can find:

- Hazard information
- Storage and handling information
- How to handle a release.

### Employee Access

Your employer has SDSs readily available for you to review when you need or want to.

- Review SDS for chemicals you work with regularly
- Be familiar with safe work practices.

GHS now requires every SDS to be in a standardized 16-section format. Knowing and understanding this 16-section format will help you respond quickly if you need to refer to an SDS during an emergency or for specific handling or storage information to work safely.



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# ANATOMY OF AN SDS

## Safety Data Sheet

Ethanol, Denatured, 95%

**SECTION 1, Identification,** includes the product identifier, the manufacturer or distributor name, the address, telephone number, emergency telephone number, recommended use, and restrictions on use.

### Section 1 Product Description

**Product Name:** Ethanol, Denatured, 95%  
**Recommended Use:** Science education applications  
**Synonyms:** Alcohol, Ethyl alcohol  
**Distributor:** Carolina Biological Supply Company, 2700 York Road, E  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER**



**SECTION 2, Hazard(s) Identification,** covers all hazards of the chemical and the required label elements.

Highly flammable liquid and vapor. May cause

**GHS Classification:**  
Flammable Liquid Category 2, Specific Target

**Other Safety Precautions:**

**Acute Toxicity Dermal Contain** 90-100% of the mixture consists of ingredient(s) of unknown toxicity

**SECTION 3, Composition/Information on Ingredients,** provides information on chemical ingredients, including trade secret claims.

### Section 3 Composition / Information on Ingredients

**Chemical**  
Ethanol  
Water  
2-Propanol  
Methanol

**SECTION 4** describes **First-Aid Measures**, separated out by routes of exposure and identifying the most important symptoms and effects. This section also explains when immediate medical attention and special treatment are needed.

### Section 4 First Aid Measures

**Emergency and First Aid Procedures**

**Inhalation:** In case of fire  
**Eyes:** In case of contact with  
**Skin Contact:** After decontamination  
**Ingestion:** If swallowed

**SECTION 5, Fire-Fighting Measures,** outlines extinguishing techniques, equipment, and any chemical hazards from fire.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate for the hazard.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective clothing and self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Vapors may travel back to ignition source and explode. Extremely flammable.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

**SECTION 6 is Accidental Release Measures,** which describes emergency procedures, protective equipment, and how to contain and cleanup when that product is spilled, released, or otherwise involved.

### Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No health effects expected from the clean-up. Follow personal protective equipment recommendations to ventilate the contaminated area. No special spill clean-up considerations. Consult MSDS for more information.

Ethanol, Denatured, 95%

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# Safety Data Sheet

## Section 7 Handling and Storage

**Handling:** Keep away from heat, open flame, and other sources of ignition. Do not use open flame, non-sparking tools, or equipment that may create sparks, dust/fume/gas/mist/vapor. Wear protective clothing. Do not breathe dust/fume/gas/mist/vapor. Keep container tightly closed. Do not empty into drains. Store in approved flammable containers. Store away from oxidizing materials.

**Storage:** Keep container tightly closed. Store in approved flammable containers. Store away from oxidizing materials.

**Storage Code:** Red - Flammables.

SECTION 7, *Handling and Storage*, identifies precautions for safely handling and storing the chemical product, including any incompatibilities.

## Section 8 Protection Information

| Chemical Name | ACGIH (TLV) | (STEL) | OSHA PEL (TWA) |
|---------------|-------------|--------|----------------|
| Ethanol       |             |        |                |
| 2-Propanol    |             |        |                |
| Methanol      |             |        |                |

SECTION 8, *Exposure Controls/Personal Protection*, indicates OSHA's permissible exposure limit, or PEL; ACGIH Threshold Limit Values, or TLVs; recommended engineering controls; and personal protective equipment, or PPE.

### Control Parameters

#### Engineering Measures:

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

#### Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

#### Respiratory Protection:

No respiratory protection required under normal conditions of use. Provide general room ventilation.

#### Respirator Type(s):

#### Eye Protection:

#### Skin Protection:

#### Gloves:

Wash hands with mild soap and water before eating, drinking, and when leaving work area.

SECTION 9, *Physical and Chemical Properties*, lists the chemical's characteristics, such as appearance, odor, melting or freezing points, flash point, evaporation rate, flammability, and solubility, just to name a few.

## Section 9 Physical Data

**Formula:** See Section 3  
**Molecular Weight:** (Ethanol) 46.07  
**Appearance:** Colorless Liquid  
**Odor:** Moderate Alcohol Odor  
**Odor Threshold:** No data available  
**pH:** No data available  
**Melting Point:** 114 C  
**Boiling Point:** 79 C  
**Flash Point:** 17 C  
**Flammable Limits in Air:** (Ethanol) LEL: 3.3% UEL: 19%

**Vapor Pressure:** 57.3 hPa at 20°C  
**Evaporation Rate (BuAc=1):** 3.3

SECTION 10, *Stability and Reactivity*, indicates the product's stability, possibility of hazardous reactions, conditions to avoid, incompatible materials, and hazardous decomposition products.

## Section 10 Reactivity Data

**Reactivity:** Not generally reactive under normal conditions.  
**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.  
**Incompatible Materials:** Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials  
**Hazardous Decomposition Products:** Carbon dioxide  
**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

Ethanol, Denatured, 95%

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SECTION 11, *Toxicological Information*, describes the likely routes of exposure, symptoms of exposure, numerical measures of toxicity, and whether or not the product is listed in the National Toxicology Program, NTP, Report on Carcinogens or has been found to be a potential carcinogen by OSHA or in the International Agency for Research on Cancer, IARC, Monographs.

## Section 12

### Overview:

**Mobility:**  
**Persistence:**  
**Bioaccumulation:**  
**Degradability:**  
**Other Adverse Effects:**

Slight ecological hazard to  
 wildlife.  
 This material is expected  
 Biodegradation is expected  
 Bioconcentration is not e  
 Biodegrades quickly.  
 No data

### Chemical Name

Ethanol  
 Water  
 2-Propanol  
 Methanol

### CAS Number

64-17-5  
 7732-18-5  
 67-63-0  
 67-56-1

## Ecological Data

SECTIONS 12 through 15 identify ecological information, disposal considerations, transport information, and regulatory information. However, these environmental sections are not regulated or enforced by OSHA, therefore may not appear on all SDSs.

24 HR EC50 DAPHNIA MAGNA 10800 MG/L  
 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L  
 48 HR EC50 DAPHNIA MAGNA 13299 MG/L  
 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L  
 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

## Section 13

## Disposal Information

### Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
 If discarded, this product is considered a RCRA ignitable waste, D001.

### Waste Disposal Code(s):

## Section 14

## Transport Information

### Ground - DOT Proper Shipping Name:

UN1170  
 Ethanol Solutions  
 Class 3  
 P.G. II

### Air - IATA Proper Shipping Name:

UN1170  
 Ethanol Solutions  
 Class 3  
 P.G. II

## Section 15

## Regulatory Information

### TSCA Status:

All components in this product are on the TSCA Inventory.

### Chemical Name

Methanol

CAS  
 Number

67-56-1

§ 313 Name

Methanol

§ 304 RQ

No

CERCLA RQ

5000 lb final  
 RQ; 2270 kg  
 final RQ

§ 302 TPQ

No

CAA 112(2)  
 TQ

No

### California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

## Section 16

## Additional Information

Revised: 03/05/2013

Replaces: 02/26/2013

Printed: 08-2013

The information provided in this (Material) Safety Data Sheet represents a compilation of data available to us. Carolina Biological Supply makes no representation or warranty as to the application of the substance covered in the (Material) Safety Data Sheet.

SECTION 16, Other Information, identifies the date of preparation or last revision of the SDS.

### Glossary

ACGIH American Conference of Governmental Industrial Hygienists  
 CAS Chemical Abstract Service Number  
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act  
 DOT U.S. Department of Transportation  
 IARC International Agency for Research on Cancer  
 N/A Not Available

PEL Permissible Exposure Limit  
 ppm Parts per million  
 RCRA Resource Conservation and Recovery Act  
 SARA Superfund Amendments and Reauthorization Act  
 TLV Threshold Limit Value  
 TSCA Toxic Substances Control Act  
 IDLH Immediately dangerous to life and health



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