

## Material Safety Data Sheet

---

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Material Name** PHENYLALANINE, L-[14C(U)]-  
**Version #** 01  
**Item #** NEC284E000MC  
**Manufacturer Information** PerkinElmer Life Sciences  
549 Albany Street  
Boston, MA 02118  
CHEMTREC 800-424-9300  
Technical Support 800-446-0035

---

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	CAS #	Percent	PEL	TLV
ETHANOL	64-17-5	1 - 2.5	1000 ppm	1000
Non-hazardous ingredient(s)	CAS #	Percent		
WATER	7732-18-5	90 - 100		
L-PHENYLALANINE	63-91-2	0 - 0.01		

---

### 3. HAZARDS IDENTIFICATION

**Emergency Overview**  
Combustible

---

### 4. FIRST AID MEASURES

**First Aid**

**Skin contact**

Wash off immediately with plenty of water.

**Eye contact**

Rinse immediately with plenty of water for at least 15 minutes.

**Inhalation**

Move to fresh air.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.

---

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media**

use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

**Special protective equipment for firefighters**

In the event of fire, wear self contained breathing apparatus.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Ensure adequate ventilation. Use personal protective equipment.

### Environmental precautions

No special environmental precautions required.

### Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable and closed containers for disposal. Clean contaminated surface thoroughly.

---

## 7. HANDLING AND STORAGE

### Handling

Use only in area provided with appropriate exhaust ventilation. Keep away from heat and sources of ignition. Wear personal protective equipment. Avoid contact with skin and eyes.

### Storage

Keep tightly closed. Store in cool place.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Controls

#### Engineering measures to reduce exposure

Provide adequate ventilation.

#### OSHA - Final PELs - Time Weighted Averages (TWAs)

ETHANOL    64-17-5      1000 ppm TWA; 1900 mg/m<sup>3</sup> TWA

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Keep away from food and drink. Wash hands before breaks and at the end of workday.

#### Respiratory protection

No personal respiratory protective equipment normally required.

#### Hand protection

solvent-resistant gloves

#### Eye protection

safety glasses with side-shields

#### Skin and body protection

lab coat

---

## 9. PHYSICAL & CHEMICAL PROPERTIES

### General Information

#### Form

liquid

#### Color

clear, colorless

#### Odor

not significant

---

---

## 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

### Stability

Stable

### Hazardous decomposition products

carbon monoxide, carbon oxides

### Incompatibility

strong oxidizing agents

---

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

May cause eye/skin irritation.

May be harmful by inhalation, in contact with skin and if swallowed.

### NIOSH - Selected LD50s and LC50s

ETHANOL	64-17-5	Inhalation LC50 Rat: 20000 ppm/10H; Inhalation LC50 Mouse: 39 gm/m <sup>3</sup> /4H; Oral LD50 Rat: 7060 mg/kg; Oral LD50 Mouse: 3450 mg/kg
---------	---------	---

### Chronic toxicity

Not established

---

ETHANOL

ACGIH Not Classified Carcinogen

### Symptoms and Target Organs

#### NIOSH - Pocket Guide - Target Organs

ETHANOL	64-17-5	respiratory system, skin, eyes, CNS, liver, blood, reproductive system
---------	---------	--

---

## 12. ECOLOGICAL INFORMATION

### Ecological Information

No data is available on the product itself.

---

## 13. DISPOSAL CONSIDERATIONS

### Disposal Instructions

In accordance with local and national regulations.

### Waste from residues / unused products

Dispose of in accordance with local regulations

---

## 14. TRANSPORTATION INFORMATION

---

## 15. REGULATORY INFORMATION

## State Regulations

### California - Prop. 65 - Developmental Toxicity

ETHANOL	64-17-5	developmental toxicity (when in alcoholic beverages); initial date 10/1/87
---------	---------	--

### Florida - Substance List

ETHANOL	64-17-5	[present]
---------	---------	-----------

### Massachusetts - Right To Know List

ETHANOL	64-17-5	teratogen
---------	---------	-----------

### New Jersey - Department of Health RTK List

ETHANOL	64-17-5	sn 0844
---------	---------	---------

### Pennsylvania - Right to Know List

ETHANOL	64-17-5	[present]
---------	---------	-----------

### Rhode Island - Hazardous Substance List

ETHANOL	64-17-5	Toxic, Flammable
---------	---------	------------------

---

## 16. OTHER INFORMATION

### Recommended use

For research use only.

### Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.