

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Name ALANINE, L-[3-3H]-
Version # 01
Item # NET348000MC
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-ALANINE | 56-41-7 | 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, CO₂, water spray or "alcohol" foam

Special protective equipment for firefighters

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

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 ³ /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.