



Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300 or 202-483-7616

## MATERIAL SAFETY DATA SHEETS

Trade Name : TRIETHANOLAMINE

This MSDS is valid for all grades and catalog numbers

### General Information

Company's Name: PHARMCO PRODUCTS, INC.

Company's Street: 58 VALE RD.

Company's City: BROOKFIELD

Company's State: CT

Company's Zip Code: 06804

Company's Emerg Ph #: (203) 740-3471

Company's Info Ph #: (203) 740-3471

Date MSDS Revised: 11/00 PS

Safety Data Review Date: 11/00

Preparer's Company: PHARMCO PRODUCTS, INC.

Preparer's St Or P. O. Box: 58 VALE RD.

Preparer's City: BROOKFIELD

Preparer's State: CT

Preparer's Zip Code: 06804

### Ingredients/Identity Information

Ingredient: Triethanolamine ( >99% ) CAS Number: 111-42-2

Ingredient: Diethanolamine ( <1% ) CAS Number: 102-71-6

### Physical/Chemical Properties

Appearance: Colorless liquid

Odor: Slight ammonia odor

Boiling Point: 644F, 340C

Melting Point: 70F, 21C

Vapor Pressure (MM Hg@ 20C): 0.01

Vapor Density (Air=1): 5.14

Specific Gravity: 1.12

Solubility In Water: Completely miscible

Autoignition Temperature: 600F, 315C

Flash point: 393F, 200C

Explosion Limits in Air: 8. 5% - 1. 3%

### Fire Fighting Measures

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**Special Fire Fighting Proc:** Wear SCBA and Protective Clothing to prevent contact with skin and eyes.

to hot liquids, Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

Emits toxic fumes under fire conditions.

**Unusual Fire And Explosion Hazards:**  
Violent steam generation or eruption may occur upon application of direct water stream

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**Reactivity and Stability Data**

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**Stability:** Stable

**Conditions To Avoid :** Product can decompose at elevated temperatures.

**Materials To Avoid:** Oxidizing Agents, Acids. Light Sensitive, Air Sensitive.

**Hazardous Decomposition Products:** CO,CO<sub>2</sub>, Nitrogen Oxides

**Hazardous Polymerization :** Will Not Occur.

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**Hazards Identification**

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**Labeling Precautionary Statements:**

Irritant

Irritating to eyes, respiratory system and skin

**Target Organs:**

Liver

Kidneys

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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**Accidental Release Measures**

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**Steps If Matl Released/Spill:** Evacuate area. Wear SCBA, rubber boots and heavy rubber gloves. Absorb with non-combustible material and/or sand. Place in closed containers for disposal.

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**Handling and Storage**

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**Precautions-Handling/Storing:**

Do not store in aluminum, copper, copper alloys. Avoid contact with eyes, skin, and clothing.

Avoid breathing vapors. Do not use sodium nitrite or other nitrosating agents. Suspected cancer-causing nitrosamines could be formed.

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**Exposure Control Measures**

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**Respiratory Protection:** For most conditions, no respiratory protection should be needed. However, if handling at elevated temperatures without sufficient ventilation, use a NIOSH/MSHA approved air-purifying respirator.

**Protective Gloves:** Use chemical resistant gloves.

**Eye Protection:** Use safety goggles. Do not get in eyes.

**Work Hygiene Practices:** Avoid prolonged or repeated exposure. Wash thoroughly after handling. Keep tightly closed. Air and light sensitive. Do not breathe vapor. Irritant.

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**First-Aid Measures**

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In case of contact, immediately flush eyes or skin with copius amounts of of water for at least 15 minutes while removing contaminated clothing. Assure adequate flushing of the eyes by separating the eyelids with fingers. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. If swallowed, wash out mouth with water provided person is conscious. Call a physician.

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**Toxicological Information**

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**Acute Effects:** May be harmful by inhalation, ingestion, or skin absorption. Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract. Exposure can cause dermatitis.

**Chronic Effects:** Damage to the liver and kidneys.

**Irritation Data:** Skin-Human 15MG/3D-I MLD

**Toxicity Data:** Oral-Rat LD50: 8 GM/KG

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**Transportation Data**

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Not DOT Regulated

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**Disposal Data**

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Refer to applicable regional, state and federal codes. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.

--Rev 2.0      12/19/01 JC