

# Cosutin Industrial CO., Limited

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## PMDETA

(N,N,N',N',N"-PENTAMETHYLDIETHYLENETRIAMINE)

### GENERAL DESCRIPTION

PMDETA catalyst is a highly active, pure liquid tertiary amine that is suitable for use as a blowing catalyst in a number of rigid and flexible polyurethane foam applications.

**ADVANTAGES:** In model systems, PMDETA catalyst has proven to have catalytic activity equivalent to other established blowing catalysts for the urea reaction. However, PMDETA catalyst has a greater affect than established blowing catalysts on the urethane or gelling reaction.

**APPLICATIONS:** PMDETA catalyst is very effective in pour-inplace polyurethane systems (such as rigid appliance systems), which are based on MDI. At a use level of 1.5 php, PMDETA catalyst provides the necessary flowability and cure rates required in the production environment. PMDETA catalyst is also recommended for TDI, TDI/MDI and MDI HR flexible molded foams, as well as for use in integral skin and microcellular systems. It can also be as a raw material to make quaternary ammonium salt.

### SPECIFICATIONS

|              |                        |
|--------------|------------------------|
| Appearance : | Colorless clear liquid |
| Purity,%     | ≥99%                   |
| Moisture%    | ≤0.25%                 |

### PROPERTIES

#### PMDETA

|               |   |           |
|---------------|---|-----------|
| CAS Number    | : | 3030-47-5 |
| Symbols       | : | T         |
| Concentration | : | 99 %      |

Appearance: Clear liquid  
Color/Colour: colorless/colourless  
Odor/Odour: ammoniacal

Formula:  $C_9H_{23}N_3$

Molecular Weight: 173.3

Synonyms:

PMDETA, PMDTA, PMDT, N,N,N',N',N"-PENTAMETHYLDIETHYLENETRIAMINE,  
N-[2-(dimethylamino)ethyl]-N,N',N'-trimethylethane-1,2-diamine,

EINECS: 221-201-1

HS code: 292129 0060

Density: 0.830 g/cm<sup>3</sup>

Melting Point: -20°C

Boiling Point: 200 °C at 760 mmHg

Vapor Pressure: 0.30 mmHg at 21 °C

Flash point: 77 °C

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Explosion Limits, Lower:1.1 vol % Upper: 5.60 vol %

## Hazard pictogram(s):



## HEALTH HAZARD EFFECTS

Toxic in contact with skin. Causes burns. Harmful if swallowed.

## DELIVERY SPECIFICATION

Delivery danger class: 8 (6.1.)

Packing group: II.

Packaged in: 850kg/IBC, 170kg/drum