



Tetra Acetyl Ethylene Diamine

I. Description of TAED

Many household and personal care products are formulated with an actioxygen-releasing material to effect removal of stain and soil. Oxygen-releasing materials have an important limitation; their activity is extremely temperature-dependent. Temperatures in excess of 60 DEG C are normally required to achieve any bleach effectiveness in an aqueous wash system. Especially for cleaning fabrics, high-temperature operation is both economically and practically disadvantageous. Thus, bleaching activators have been applied in an object to activate bleaching reaction at low temperatures.

As the most commercialized low temperature bleaching activator, TAED is typically applied in domestic laundry detergents, automatic dish washing, bleach boosters, laundry soak treatments, to improve the washing performance. TAED could be applied in textile bleaching to react with hydrogen peroxide in the bleach bath to produce a stronger oxidant. The use of TAED as bleach activator enables bleaching at lower process temperatures and under milder pH conditions. In pulp and paper industry, TAED is suggested to react with hydrogen peroxide to form a pulp bleaching solution. The addition of TAED into pulp bleaching solution results in a satisfactory bleaching effect. TAED used for detergent industry is in granular form, free-flowing, and has several colors (mainly white, green, blue) to choose depending on users' choice.

II. Specification of TAED

Chemical Name	Tetra Acetyl Ethylene Diamine
Synonyms	TAED
Molecular Formula	C ₁₀ H ₁₆ O ₄ N ₂
Molecular Weight	228
CAS Number	10543-57-4
Content	92-94
Bulk Density (g/L)	420-750
Particle Size Distribution (%)	On1.700mm≤ 1.0 Through0.150mm≥3.0
Moisture (%)	≤2
Ferric (%)	≤0.002
Appearance	White or color granules
Packing	25kgs in Kraft paper bags plus PE liner





III. Application

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IV. Storage

Store in a cool, well ventilated area away from all source of ignition and out of direct sunlight. Store in a dry location away from heat. Store at room temperatures. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Never return unused product to storage container. Protect from moisture. Keep containers well sealed.

V. Handling

- ♀ Avoid contact with eyes, skin and clothing. Use with adequate ventilation.
- ♀ Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- ♀ Prevent contact with combustible or organic materials. Label containers and keep them tightly closed when not in use.
- ♀ Wash thoroughly after handling.

VI. First-aid Measures

- ♀ Inhalation- Remove affected person to fresh air. Do not use mouth-to-mouth resuscitation. Seek medical attention if effects persist.
- ♀ Eye contact-Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.
- ♀ Skin contact-Wash affected skin with soap and mild detergent and large amounts of water.
- ♀ Ingestion-Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation. Seek medical service immediately.





VII. Shipping Information

♀ Proper Shipping Name: Tetra Acetyl Ethylene Diamine

♀ UN Number: Not applicable

♀ Hazard Class: Not regulated

♀ Labels: No information available

♀ Packing Group: No information available

■ Please read the **MSDS** for this chemical before using!

