



ROLL CALL RELEASE

In Collaboration with the ITACG



16 September 2009

(U//FOUO) Hexamethylene Triperoxide Diamine as a Possible Homemade Explosive

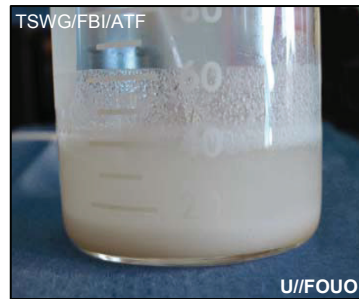
(U//FOUO) Terrorists could use the explosive Hexamethylene Triperoxide Diamine (HMTD) in an attack against the United States. Terrorist training manuals have included information regarding the production and use of HMTD as components of an explosive device. HMTD can be made from hydrogen peroxide, hexamine, and citric acid or diluted nitric acid. These ingredients are widely available in drug stores, hardware stores, and camping supply stores. HMTD is extremely sensitive to impact, friction, static/sparks, and heat, and may react violently to drug field testing if large amounts are tested at once.



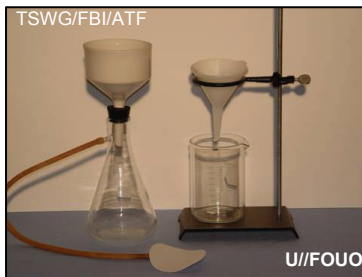
(U//FOUO) Pure HMTD.

- (U//FOUO) Key Identifiers**
- Crystals or powder
 - Colorless to white
 - Dullness like flour
 - Solids settled at bottom of container
 - Fresh product may have little or no odor, older product can smell like dead fish
 - Additives can alter the physical appearance, precursor colors will affect HMTD color
 - May be stored in refrigerator or freezer

- (U) Chemical Precursors**
- **Citric acid:** food additive, water softener, powdered drinks
 - **Hexamine:** camp stove fuel tablets
 - **Hydrogen peroxide:** disinfectant, bleaching agent

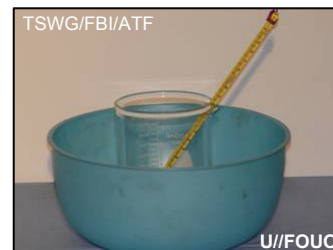


(U//FOUO) HMTD in solution.



(U//FOUO) Improved filtration set-up.

- (U) Lab Equipment**
- | | |
|-----------|------------|
| Glassware | Distillers |
| Mixers | Ice Bath |
| Filters | |



(U//FOUO) Improved cooling set-up.

IA-0414-09

(U) Prepared by the Interagency Threat Assessment and Coordination Group (ITACG) in coordination with DHS/I&A and the FBI/Counterterrorism Analysis Section.

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