



# ROLL CALL RELEASE

In Collaboration with the ITACG



16 September 2009

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

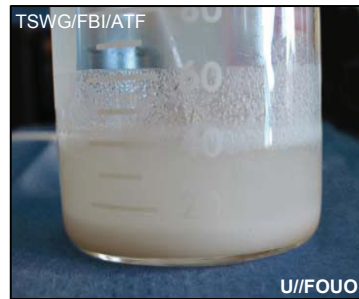
(U//FOUO) Terrorists could use the explosive Hexamethylene Triperoxide Diamine (HMTD) in an attack against the United States. Terrorist training manuals have included information regarding the production and use of HMTD as components of an explosive device. HMTD can be made from hydrogen peroxide, hexamine, 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.



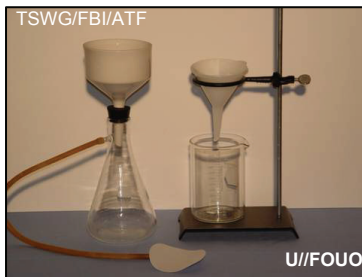
(U//FOUO) Pure HMTD.

- (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

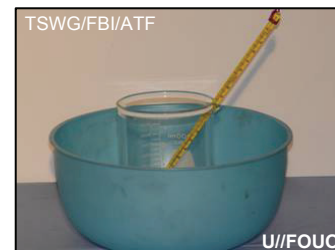


(U//FOUO) HMTD in solution.



(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.

(U) **Warning:** This document is UNCLASSIFIED//FOR OFFICIAL USE ONLY (U//FOUO). It contains information that may be exempt from public release under the Freedom of Information Act (5 U.S.C. 552). It is to be controlled, stored, handled, transmitted, distributed, and disposed of in accordance with DHS policy relating to FOUO information and is not to be released to the public, the media, or other personnel who do not have a valid need-to-know without prior approval of an authorized DHS official. State and local homeland security officials may share this document with authorized security personnel without further approval from DHS.

FOR POLICE, FIRE, EMS, and SECURITY PERSONNEL