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Kim et al.

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[54] 4,4,10,10-TETRANITRO-6,8-DIOXATRIDE-  
CANE-1,13-DIOL POLYFORMAL AND  
METHOD OF PREPARATION

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[57] ABSTRACT

4,4,10,10-tetranitro-6,8-dioxatridecane-1,13-diol poly-  
formal, HO(CH<sub>2</sub>)<sub>3</sub>C(NO<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>OCH<sub>2</sub>.  
C(NO<sub>2</sub>)<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>O[CH<sub>2</sub>O(CH<sub>2</sub>)<sub>3</sub>C(NO<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>OCH-  
<sub>2</sub>OCH<sub>2</sub>C(NO<sub>2</sub>)<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>O]<sub>n</sub>H, which has high energy,  
high thermal stability, and which is useful as a prepoly-  
mer for plastic-bonded explosive compositions.

[73] Assignee: The United States of America as  
represented by the Secretary of the  
Navy, Washington, D.C.

3 Claims, No Drawings

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C07C 43/303; C06B 45/10

[52] U.S. Cl. .... 528/266; 568/590;  
568/944; 149/19.4; 149/19.6; 149/88

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vention registration. For more specific information on the  
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