>>**Entry Name: Mercury(*II*) cyanide oxide**
Synonym(s): Basic mercury cyanide. Mercuric oxycyanide

CAS Registry Number: 1335-31-5

$Hg_2(CN)_2O$

Molecular Formula: $C_2Hg_2N_2O$
Molecular Weight: 469.215
Accurate Mass: 471.942297
Percentage Composition: C 5.12%; Hg 85.50%; N 5.97%; O 3.41%
Source/Synthesis: Prepd. from $Hg(CN)_2$ + HgO
Use/Importance: Formerly used as a topical antiseptic when mixed with mercuric cyanide to eliminate the danger of explosion
Physical Description: White cryst. (H_2O)
Solubility: Sol. H_2O
Hazard & Toxicity: OES: long-term 0.05 mg m^{-3}; short-term 0.15 mg m^{-3} (as Hg). LD_{Lo} (rbt, ivn) 2.5 mg/kg. Explosive, sensitive to impact and heat

References:

Jones, A.J.*, Pharm. J.*, 1920, **105**, 87, *(synth, props)*
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Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, MDA500
Bretherick, L.*, Handbook of Reactive Chemical Hazards, 4th edn., Butterworths*, 1990, 0928