Technical Information

Stepan

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BIODEGRADATION OF COCAMIDOPROPYLAMINE OXIDES Applicable to these current Stepan products:

I AMMONYX® CDO	AMMONYX® HCDO	AMMONYX® LMDO
		WINTINOIA LV@ CIAIDO
AMMONYX® CDO-35%	AMMONYX ® CDO SPECIAL	

Biodegradation Information:

Cocamidopropylamine oxides have been tested for biodegradation using number of OECD ready biodegradation test methods. The Close Bottle test, OECD 301D has shown 60% biodegradation in 28 days⁽¹⁾ while the CO₂ Evolution Test (OECD 301B) reached 98% biodegradation in 28 days⁽²⁾. The degradation based on the oxygen consumption (MITI test, OECD 301C) has shown 84% biodegradation after 28 days⁽³⁾. Based on these results Cocamidopropylamine oxides are shown to undergo rapid biodegradation and are considered ready biodegradable.

References:

Stepan Study No. 99-011A Stepan Study No. 99-011C Stepan Study No. 00-011A

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