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**Technical  
Information**

**Stepan**

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## BIODEGRADATION OF COCAMIDOPROPYLAMINE OXIDES

Applicable to these current Stepan products:

AMMONYX® CDO AMMONYX® CDO-35%	AMMONYX® HCDO AMMONYX® CDO SPECIAL	AMMONYX® LMDO
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### 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<sup>(1)</sup> while the CO<sub>2</sub> Evolution Test (OECD 301B) reached 98% biodegradation in 28 days<sup>(2)</sup>. The degradation based on the oxygen consumption (MITI test, OECD 301C) has shown 84% biodegradation after 28 days<sup>(3)</sup>. 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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