



ECOTOXICOLOGY OF AMINE OXIDES

Applicable to these current Stepan products:

AMMONYX® CO AMMONYX® LO-A AMMONYX® M AMMONYX® SO	AMMONYX® DO AMMONYX® LO-BR AMMONYX® MCO	AMMONYX® LO AMMONYX® LO Special AMMONYX® MO
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Applicable to these inactive Stepan products:

AMMONYX® C	AMMONYX® DMCD-40	
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Toxicological Information:

<u>Test/Conditions</u>	<u>Results/Classification</u>	<u>References</u>
Acute aquatic toxicity to fish (96 hr.)	Carbon chain lengths \leq 14: LC50 = 2 - 32 mg/L (moderately toxic) Carbon chain lengths > 14: LC50 0.6 - 1.4 mg/L (highly toxic)	ECHA REACH Dossiers & HPV Assessment
Acute aquatic toxicity to daphnia (48 hr.)	Carbon chain lengths 14: EC50 1-11.0 mg/L (moderately toxic) Carbon chain lengths > 14: EC50 < 1 mg/L (highly toxic)	ECHA REACH Dossiers & HPV Assessment
Acute aquatic toxicity to alga (72 hr.)	Carbon chain lengths 12-18: ErC50 = 0.8 - 0.1 mg/L (highly toxic)	ECHA REACH Dossiers & HPV Assessment
Chronic aquatic toxicity to fish (302 days)	NOEC = 0.42 mg/L	ECHA REACH Dossiers & HPV Assessment
Chronic aquatic toxicity to daphnia (21 days)	NOEC = 0.7 mg/L	ECHA REACH Dossiers
Chronic aquatic toxicity to alga	NOEC = 0.067 mg/L	ECHA REACH Dossiers

Note: NOEC – No Observed Effective Concentration

References:

ECHA REACH Dossiers for Amine Oxides.

OECD SIDS Initial Assessment Report, 2006.

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