



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
---	---	---

Applicable to these inactive Stepan products:

AMMONYX® C	AMMONYX® DMCD-40	
------------	------------------	--

Toxicological Information:

<u>Test/Conditions</u>	<u>Results/Classification</u>	<u>References</u>
Acute aquatic toxicity to fish (96 hr.)	Carbon chain lengths ≤ 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.

AMMONYX® is a registered trademark of Stepan Company.

Last Update: [August 28, 2020](#)

Revision Reference: [TX060.02](#)

Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.