

## List of Scientific Journal Publications relating to IMO A-MoCon research into molybdate effects

<b>Subject</b>	<b>Name of Paper</b>	<b>Reference</b>	<b>Available from</b>
<b>Human Health:</b> Endocrine Disruptor endpoint	Molybdenum is not a risk factor for changes in serum testosterone	Human & Ecological Risk Assessment, May 2023	Free-of-charge download from: <a href="https://www.tandfonline.com/doi/epdf/10.1080/10807039.2023.2218935?needAccess=true&amp;role=button">https://www.tandfonline.com/doi/epdf/10.1080/10807039.2023.2218935?needAccess=true&amp;role=button</a>
<b>Human Health:</b> Reproductive Toxicity	A 2-generation reproductive toxicity study of sodium molybdate dihydrate administered in drinking water or diet to Sprague-Dawley rats	Journal of Reproductive Toxicology, Vol 84, March 2019, 75 - 92	Free-of-charge download from: <a href="https://doi.org/10.1016/j.reprotox.2018.11.004">https://doi.org/10.1016/j.reprotox.2018.11.004</a>
<b>Human Health:</b> <i>In vitro</i> genotoxicity	“New studies on the <i>in vitro</i> genotoxicity of sodium molybdate and their impact on the overall assessment of the genotoxicity of molybdenum substances” by Arne Burzlaff et al	Regulatory Toxicology and Pharmacology, Vol 86, June 2017, 279 - 291	Free-of-charge download from: <a href="http://www.sciencedirect.com/science/article/pii/S0273230017300764">http://www.sciencedirect.com/science/article/pii/S0273230017300764</a>
<b>Human Health &amp; Environment</b>	OECD Mutually Accepted Data (MAD) by OECD-member countries	Highly soluble molybdenum salts category SIAP	Free-of-charge download from OECD Existing Chemicals Database: <a href="https://hpvchemicals.oecd.org/UI/SIDS_Details.aspx?id=5c88d62f-4401-4cad-b521-521a4bd710f3">https://hpvchemicals.oecd.org/UI/SIDS_Details.aspx?id=5c88d62f-4401-4cad-b521-521a4bd710f3</a>
<b>Human Health:</b> Prenatal developmental toxicity	“Developmental toxicity study of sodium molybdate dihydrate administered in the diet to Sprague Dawley rats”.	Journal of Reproductive Toxicology, Vol 49, November 2014, 202-208	Free-of-charge download from: <a href="http://www.sciencedirect.com/science/article/pii/S089062381400238X">http://www.sciencedirect.com/science/article/pii/S089062381400238X</a>
<b>Human Health:</b> Repeated dose toxicity	“90-Day subchronic toxicity study of sodium molybdate dihydrate in rats.”	Regulatory Toxicology and Pharmacology, Vol 70, Issue 3,	Free-of-charge download from: <a href="http://www.sciencedirect.com/science/article/pii/S0273230013001487">http://www.sciencedirect.com/science/article/pii/S0273230013001487</a>

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		December 2014, 579 - 588	
<b>Human Health:</b> Bioaccessibility	“Bioaccessibility of micron-sized powder particles of molybdenum metal, iron metal, molybdenum oxides and ferromolybdenum – Importance of surface oxides”	Regulatory Toxicology and Pharmacology. 72(2015)447-457	<a href="http://www.sciencedirect.com/science/article/pii/S0273230015001427">http://www.sciencedirect.com/science/article/pii/S0273230015001427</a>
<b>Freshwater:</b> Organisms effects generation	“The chronic toxicity of molybdate to freshwater organisms. I. Generating reliable effects data” by K.A.C.de Schamphelaere	Science of the Total Environment 408 (2010) 5362-5371	<a href="http://www.sciencedirect.com/science/article/pii/S0048969710007357">http://www.sciencedirect.com/science/article/pii/S0048969710007357</a>
<b>Marine:</b> Organisms effects generation	“The chronic toxicity of molybdate to marine organisms. I. Generating reliable effects data”, by D.G. Heijerick.	Science of the Total Environment 430 (2012) 260-269	<a href="http://www.sciencedirect.com/science/article/pii/S0048969712004068">http://www.sciencedirect.com/science/article/pii/S0048969712004068</a>
<b>Subject</b>	<b>Name of Paper</b>	<b>Reference</b>	<b>Available from</b>
<b>PNEC derivation :</b> Freshwater and marine	‘The toxicity of molybdate to freshwater and marine organisms. II. Effects assessment of molybdate in the aquatic environment under REACH,’ by D.G. Heijerick	Science of the Total Environment 435–436 (2012) 179–187	<a href="http://www.sciencedirect.com/science/article/pii/S0048969712007905">http://www.sciencedirect.com/science/article/pii/S0048969712007905</a>
<b>US-FCV derivation +</b>	“The toxicity of molybdate to freshwater and marine	Science of the Total Environment,	Free-of-charge download from: <a href="http://www.sciencedirect.com/science/article/pii/S0048969717317734">http://www.sciencedirect.com/science/article/pii/S0048969717317734</a>

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<b>H. Azteca &amp; M. Beryllina studies</b>	organisms. III. Generating additional chronic toxicity data for the refinement of safe environmental exposure concentrations in the US and Europe”, by Dagobert Heijerick	Vol 609, 31 December 2017, pages 420-428	
<b>BCF-BAF:</b> Freshwater fish study	“The bioconcentration and bioaccumulation factors for molybdenum in the aquatic environment from natural environmental concentrations up to the toxicity boundary”, by L. Regoli.	Science of the Total Environment 435–436 (2012) 96–106	<a href="http://www.sciencedirect.com/science/article/pii/S0048969712008352">http://www.sciencedirect.com/science/article/pii/S0048969712008352</a>
<b>Soils:</b> Toxicity data	“Influence of soils properties on molybdenum uptake elimination kinetics in the earthworm Eisenia Andrei”, by M. Diez-Ortiz et al, 2010.	Chemosphere. 80(2010) 1036-1043	<a href="http://www.sciencedirect.com/science/article/pii/S0045653510006053">http://www.sciencedirect.com/science/article/pii/S0045653510006053</a>
<b>Subject</b>	<b>Name of Paper</b>	<b>Reference</b>	<b>Available from</b>
<b>Soils:</b> Toxicity data	“Predicting molybdenum toxicity to higher plants: influence of soil properties” by S. McGrath et al, 2010.	Environmental Pollution. 158: 3095-3102	<a href="http://www.sciencedirect.com/science/article/pii/S0269749110002629">http://www.sciencedirect.com/science/article/pii/S0269749110002629</a>
<b>Soils:</b> Toxicity data	“Predicting molybdenum toxicity to higher plants: estimation of toxicity threshold values” by S. McGrath et al, 2010.	Environmental Pollution. 158: 3085-3094	<a href="http://www.sciencedirect.com/science/article/pii/S0269749110002654">http://www.sciencedirect.com/science/article/pii/S0269749110002654</a>

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<b>Soils:</b> Toxicity data	“The bioaccumulation of molybdenum in the earthworm <i>Eisenia andrei</i> : influence of soil properties and ageing” by C. Van Gestel et al. 2010	Chemosphere. 82(2011) 1614-1619	<a href="http://www.sciencedirect.com/science/article/pii/S0045653510013548">http://www.sciencedirect.com/science/article/pii/S0045653510013548</a>
<b>Soils:</b> Toxicity data	“Effect of long-term equilibration on the toxicity of molybdenum to soil organisms” by C. Van Gestel et al. 2011	Environmental Pollution 162 (2012) 1e7	<a href="http://www.sciencedirect.com/science/article/pii/S0269749111005835">http://www.sciencedirect.com/science/article/pii/S0269749111005835</a>
<b>Soils:</b> Toxicity data	“Toxicity of the molybdate anion in soil is partially explained by effects of the accompanying cation or by soil pH” by J. Buerkers et al. 2009	Environmental toxicology and chemistry. Vol. 29, No. 6, pp 1274-1278 2010	<a href="http://onlinelibrary.wiley.com/doi/10.1002/etc.162/abstract">http://onlinelibrary.wiley.com/doi/10.1002/etc.162/abstract</a>
<b>Soils:</b> Toxicity data	“Aging effects on molybdate lability in soils” by J. Kirby et al. 2012	Chemosphere. 89(2012) 876-883	<a href="http://www.sciencedirect.com/science/article/pii/S0045653512006236">http://www.sciencedirect.com/science/article/pii/S0045653512006236</a>
<b>Soils:</b> Toxicity data & PNEC derivation	“Derivation of ecological standards for risk assessment of molybdate on soil”. By K.Oorts et al. 2015	<i>Environ. Chem.</i> <a href="http://dx.doi.org/10.1071/EN15086">http://dx.doi.org/10.1071/EN15086</a>	Free-of-charge download from: <a href="http://www.publish.csiro.au/?paper=EN15086">http://www.publish.csiro.au/?paper=EN15086</a>

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