

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

Subject	Name of Paper	Reference	Available from
Human Health: Genotoxicity	In vivo micronucleus assay on sodium molybdate in rats and its impact on the overall assessment of the genotoxicity of molybdenum substances	Regulatory Toxicology & Pharmacology , Volume 154, December 2024, 105717	Free-of-charge download from: https://doi.org/10.1016/j.yrtph.2024.105717
Human Health: Toxicology	Molybdenum Chapter <i>(all new chapter authored by IMO A)</i>	Patty's Toxicology https://doi.org/10.1002/0471125474.tox161	Wiley publishers online download, US\$42 from: Molybdenum - Klipsch - Major Reference Works - Wiley Online Library https://doi.org/10.1002/0471125474.tox161
Human Health: Reproductive Toxicity	OECD 414 supplementary prenatal developmental toxicity study of sodium molybdate dihydrate in the rat and benchmark dose evaluation	Reproductive Toxicology , Volume 120, September 2023, 108443	Free-of-charge download from: https://www.sciencedirect.com/science/article/pii/S089062382300117X
Human Health: Reproductive Toxicity	Sodium molybdate dihydrate does not exhibit developmental or reproductive toxicity in Sprague-Dawley rats maintained on a marginal copper diet	Reproductive Toxicology , Volume 120, September 2023, 108442	Free-of-charge download from: https://www.sciencedirect.com/science/article/pii/S0890623823001168
Human Health: Endocrine Disruption endpoint	Molybdenum is not a risk factor for changes in serum testosterone	Human & Ecological Risk Assessment , May 2023	Free-of-charge download from: https://www.tandfonline.com/doi/epdf/10.1080/10807039.2023.2218935?needAccess=true&role=button
Human Health: Reproductive Toxicity	A 2-generation reproductive toxicity study of sodium molybdate dihydrate	Journal of Reproductive Toxicology , Vol 84,	Free-of-charge download from: https://doi.org/10.1016/j.reprotox.2018.11.004

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	administered in drinking water or diet to Sprague-Dawley rats	March 2019, 75 - 92	
Human Health: <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: http://www.sciencedirect.com/science/article/pii/S0273230017300764
Subject	Name of Paper	Reference	Available from
Human Health & Environment	OECD Mutually Accepted Data (MAD) by OECD-member countries	OECD chemicals database: Highly soluble molybdenum salts category SIAP	Free-of-charge download from OECD Existing Chemicals Database: https://hpvchemicals.oecd.org/UI/SIDS_Details.aspx?id=5c88d62f-4401-4cad-b521-521a4bd710f3
Human Health: 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: http://www.sciencedirect.com/science/article/pii/S089062381400238X
Human Health: Repeated dose toxicity	"90-Day subchronic toxicity study of sodium molybdate dihydrate in rats."	Regulatory Toxicology and Pharmacology , Vol 70, Issue 3, December 2014, 579 - 588	Free-of-charge download from: http://www.sciencedirect.com/science/article/pii/S0273230013001487
Human Health: Bioaccessibility	"Bioaccessibility of micron-sized powder particles of molybdenum metal, iron metal, molybdenum oxides and	Regulatory Toxicology and Pharmacology . 72(2015)447-457	http://www.sciencedirect.com/science/article/pii/S0273230015001427

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	ferromolybdenum – Importance of surface oxides”		
Freshwater: 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	http://www.sciencedirect.com/science/article/pii/S0048969710007357
Subject	Name of Paper	Reference	Available from
Marine: 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	http://www.sciencedirect.com/science/article/pii/S0048969712004068
PNEC derivation : 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	http://www.sciencedirect.com/science/article/pii/S0048969712007905
US-FCV derivation + H. Azteca & M. Beryllina studies	“The toxicity of molybdate to freshwater and marine organisms. III. Generating additional chronic toxicity data for the refinement of safe environmental exposure concentrations in the US and Europe”, by Dagobert Heijerick	Science of the Total Environment, Vol 609, 31 December 2017, pages 420-428	Free-of-charge download from: http://www.sciencedirect.com/science/article/pii/S0048969717317734
BCF-BAF: Freshwater fish study	“The bioconcentration and bioaccumulation factors for molybdenum in the aquatic	Science of the Total Environment	http://www.sciencedirect.com/science/article/pii/S0048969712008352

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	environment from natural environmental concentrations up to the toxicity boundary”, by L. Regoli.	435–436 (2012) 96–106	
Soils: Toxicity data	“Influence of soils properties on molybdenum uptake elimination kinetics in the earthworm <i>Eisenia Andrei</i> ”, by M. Diez-Ortiz et al, 2010.	Chemosphere. 80(2010) 1036-1043	http://www.sciencedirect.com/science/article/pii/S0045653510006053
Subject	Name of Paper	Reference	Available from
Soils: Toxicity data	“Predicting molybdenum toxicity to higher plants: influence of soil properties” by S. McGrath et al, 2010.	Environmental Pollution. 158: 3095-3102	http://www.sciencedirect.com/science/article/pii/S0269749110002629
Soils: Toxicity data	“Predicting molybdenum toxicity to higher plants: estimation of toxicity threshold values” by S. McGrath et al, 2010.	Environmental Pollution. 158: 3085-3094	http://www.sciencedirect.com/science/article/pii/S0269749110002654
Soils: 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	http://www.sciencedirect.com/science/article/pii/S0045653510013548
Soils: 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	http://www.sciencedirect.com/science/article/pii/S0269749111005835

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Soils: 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	http://onlinelibrary.wiley.com/doi/10.1002/etc.162/abstract
Subject	Name of Paper	Reference	Available from
Soils: Toxicity data	"Aging effects on molybdate lability in soils" by J. Kirby et al. 2012	Chemosphere. 89(2012) 876-883	http://www.sciencedirect.com/science/article/pii/S0045653512006236
Soils: Toxicity data & PNEC derivation	"Derivation of ecological standards for risk assessment of molybdate on soil". By K.Oorts et al. 2015	Environ. Chem. http://dx.doi.org/10.1071/EN15086	Free-of-charge download from: http://www.publish.csiro.au/?paper=EN15086

Notes: In order not to breach copyright rules IMO A-MoCon cannot supply you with copies of these publications but several are available for free-of-charge download where indicated, and others you can order directly on-line from the journal, using the links and references above. Chargeable ones cost approximately US\$40.

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