



## Compilation of several typical chemical toxicity level (LC50 and LD50)

Chemical name	LC 50 (ug/l) with rainbow trout	LD50 (mg/kg) at Rat
Cyanide	28 <sup>[1]</sup>	4.3-15 <sup>[2, 3]</sup>
CuSO4.2H2O	750 <sup>[4]</sup>	482
ZnCl2	550 <sup>[5]</sup>	329
Eco-Goldex O series agent	793 <sup>[6]</sup>	584
HgCl2	84.5 [48 hr]	

1. KOVACS, T. e., AND 6. LEDUC. 1982. Acute Toxicity of Cyanide to Rainbow Trout Acclimated at Different Temperatures. *Can. J. Fish. Aquat. Sci.* 1982
2. NTP Technical Report on Toxicity Studies of Sodium Cyanide. Charles D. Hébert, Ph.D., Study Scientist National Toxicology Program Post Office Box 12233 Research Triangle Park, NC 27709. NIH Publication 94-3386 November 1993.
3. SMYTH, H. F., JR., WEIL, C. S., WEST, J. S., AND CARPENTER, C. P. (1969). An exploration of joint toxic action: Twenty-seven industrial chemicals intubated in rats in all possible pairs. *Toxicol. Appl. Pharmacol.* 14, 340-347.
4. Brown, V.M., Dalton, R. A., (1970) . The acute lethal toxicity to rainbow trout of mixtures of copper, phenol, zinc and nickel, *Journal of Fish Biology*, 2: 211-16.
5. EPA-600/3-78-094, Oct. 1978. The Acute Toxicity of Zinc to Rainbow and Brook Trout.
6. Eco-Goldex Inc. ecotoxicity test of eco-goldex O series agent on rainbow trout. Conducted by AGAT lab. Quebec, Canada, Oct. 4, 2019

Toxicity Classes: Hodge and Sterner Scale				
Toxicity Rating	Commonly Used Term	Oral LD <sub>50</sub>	LC <sub>50</sub>	Dermal LD <sub>50</sub>
1	Extremely Toxic	(single dose to rats) mg/kg	(exposure of rats for 4 hours) ppm	(single application to skin of rabbits) mg/kg
2	Highly Toxic	1 or less	10 or less	5 or less
3	Moderately Toxic	1-50	10-100	5-43
4	Slightly Toxic	50-500	100-1000	44-340
5	Practically Non-toxic	500-5000	1000-10,000	350-2810
6	Relatively Harmless	5000-15,000	10,000-100,000	2820-22,590



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according to the Hodge and Sterner toxicity scale

**Eco-Goldex O series agent can be classified as either slightly toxic or practically non-toxic**



John Guo (Ph D, P. Geo)

A handwritten signature in blue ink, consisting of several overlapping loops and a long horizontal stroke.

President/CEO

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