

Corrigendum for: Solvent solutions: comparing extraction methods for edible oils and proteins in a changing regulatory landscape. Part 7: Overall comparison between solvent solutions

OCL 32, 9 (2025) – <https://doi.org/10.1051/ocl/2025013>

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Accepted 7 May 2025

Regarding the article Carré P, Piofczyk T, Bothe S. 2025. Solvent Solutions: Comparing Extraction Methods for Edible Oils and Proteins in a Changing Regulatory Landscape. Part 7: Overall comparison between solvent solutions. OCL 32: 9., published on April 23, 2025, a transcription error regarding the lethal dose of n-hexane in rats has led us to publish the following correction:

Aggregation of criteria related to product quality

The consequence is a slight evolution of the n-hexane ranking for the score of this solvent in the seventh criteria about impacts on products quality and acceptance, the score passing from 3.0 to 3.3 with little consequences on the global appreciation of normal hexane.

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Contribution to the Topical Issue: “Extraction solvents / Solvants d’extraction”.

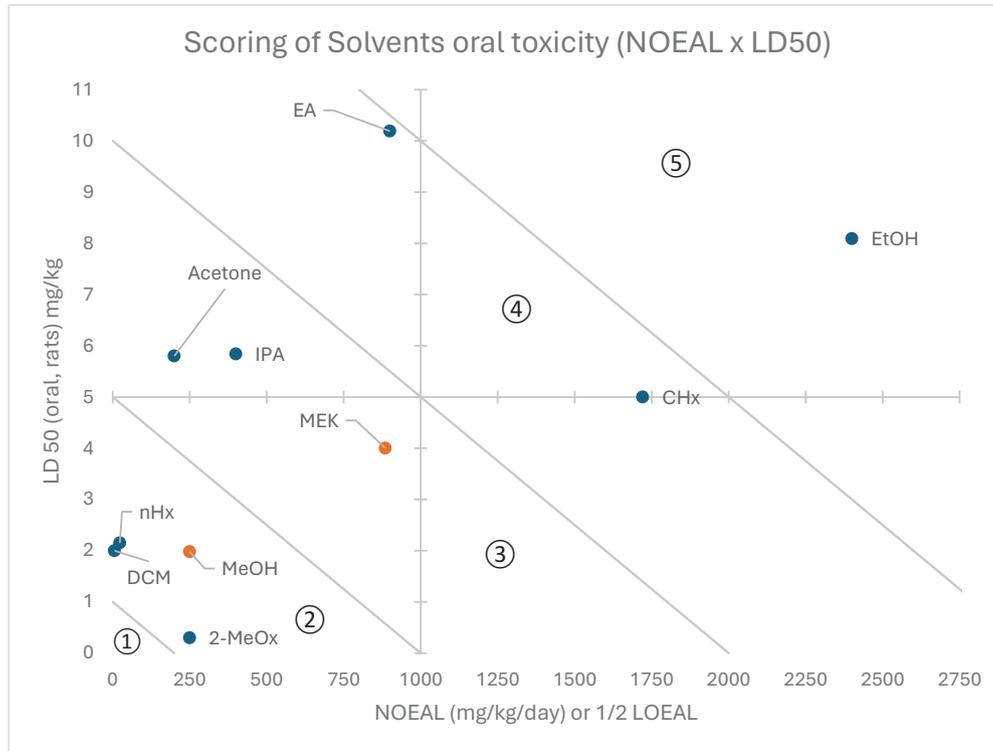


Figure 1. Oral Toxicity Scoring of Solvents (NOEAL: No Observed Effect Level; LOEAL: lowest Observed Effect Level; LD 50: Lethal Dose 50).

Table 1. Oral toxicity indicators and toxicity scores.

Criteria	NOEAL (mg/kg bw/day)	LOEAL (mg/kg bw/day)	Source	LD50 (rats, g/kg)	LD 50 (Midpoint)	Score
n-Hexane	23.0		CECSCF, 1988	1.41-2.89	2.15	2
Iso-hexane				0.0158	0.0158	1
Cyclo-hexane	1721.0		Malley et al., 2000	5	5	4
Methanol		500	ABC., 1986	1.19-2.77	1.98	2
Ethanol	2400.0		ECHA, 2018	1.18 – 15.0	8.09	5
Isopropanol	400.0		OECD, 2007	5.84	5.84	3
Acetone	200.0		Dietz et al., 1991; NTP, 1991	5.8	5.8	3
MEK		1771	Krasavage et al., 1982	2-6	4	3
EA	900.0		OECD, 2006	10.19	10.19	4
DCM	6.0		OECD, 2011	2	2	2
2-MeOx	250.0		Antonucci et al., 2017	0.3	0.3	2

Table 2. Summary of explored criteria related to products quality.

Criteria	Hx	i-Hx	c-Hx	MeOH	EtOH	IPA	Acetone	MEK	EA	DCM	2-MeOx
MEAN	3.3	3.0	3.3	3.0	4.3	3.3	4.0	2.8	3.5	3.0	2.5
Oil quality	3	3	3	5	5	4	4	3	2	4	2
Meal quality	5	5	4	1	2	2	4	3	3	5	3
Toxicity	2	1	4	2	5	3	3	3	4	2	2
Regulation compliance	3	3	2	4	5	4	5	2	5	1	3

Cite this article as: Carré P, Piofczyk T, Bothe S. 2025. Corrigendum for: Solvent solutions: comparing extraction methods for edible oils and proteins in a changing regulatory landscape. Part 7: Overall comparison between solvent solutions. *OCL* 32: 18. <https://doi.org/10.1051/ocl/2025016>.