

DEPARTMENT OF INDUSTRIAL RELATIONS

DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

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The following changes are proposed to the n-butanol summary presented at the March 5, 2019 HEAC meeting. The omitted text is in strike-through and the added text in bold.

“RECOMMENDATION: A PEL of 20 ppm for n-butanol is proposed based on the findings in occupational investigations that concentrations below this value did not result in irritation or CNS effects in exposed workers. The CEILING notation is retained due to potential ~~CNS effects~~ **eye irritation**. The SKIN notation for n-butanol is retained due to its moderate skin permeability and wide-spread use as a solvent. Some Authoritative Bodies have removed the SKIN notation based on a calculation of systemic dose using a flux values of 0.019–0.048 mg cm²/hr (Scheuplein, 1973, from MAK documentation, see table in Appendix). Subsequent in –vitro studies have found substantially higher flux values for n-butanol (Boman, see table in Appendix).”

“OSHA Method 7 (fully validated) uses a charcoal tube (or organic vapor monitor), a flowrate of 0.05 ~~ppm~~ **lpm**, a volume range of 0.75 to 12 liters, and a GC-FID analytical method with an estimated detection limit of 23.5 picograms.”