Carbon disulfide CS₂ [CAS No.75-15-0] OEL-C: 1ppm (3.13 mg/m³) (skin) Reproductive toxicants: Group 1

Summary of OEL-C documentation

Health effects of carbon disulfide on the cardiovascular system and an increase in microaneurysm formation in the retina were observed at 3.4 (Omae *et al.*¹) to 5 ppm (Takebayashi *et al.*²). Effects on the peripheral nerves in terms of reduction in conduction velocity were detected even at lower exposure levels. Thus, Hirata *et al.*³ (1984) observed a reduction in ulnar nerve at 1.45 ppm, and Johnson *et al.*⁴) detected a decrease in peroneal nerve at <1 ppm. In contrast, Cirla and Grazino⁵) did not find effects at 6.4 ppm. Taking these findings together, an occupational exposure limit of 1 ppm is proposed.

Year of Proposal (revision): 2015

Year of Proposal (revision): 1974 (OEL-C 10 ppm, skin)

Year of Proposal: 1961 (OEL-C 20 ppm, skin)

References

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