Carbon disulfide

\[ \text{CS}_2 \]

[CAS No.75-15-0]

OEL-C: 1ppm (3.13 mg/m\(^3\)) (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 \textit{et al.}\(^\text{1}\)) to 5 ppm (Takebayashi \textit{et al.}\(^\text{2}\)). Effects on the peripheral nerves in terms of reduction in conduction velocity were detected even at lower exposure levels. Thus, Hirata \textit{et al.}\(^\text{3}\) (1984) observed a reduction in ulnar nerve at 1.45 ppm, and Johnson \textit{et al.}\(^\text{4}\) detected a decrease in peroneal nerve at <1 ppm. In contrast, Cirla and Grazino\(^\text{5}\) 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