

Manganese and compounds (as Mn except organic compounds)

Mn

[CAS No. 7439-96-5]

Reproductive toxicant: Group 2

There have been no well-designed epidemiological studies clearly showing reproductive toxicity of manganese, although intoxicated patients reportedly suffer from impotence or decreased libido^{1,2}. The available studies show conflicting results with regard to effects of manganese exposure on male fertility³⁻⁶. In contrast, animal studies show toxic effects such as reduced fertility, decreased plasma testosterone concentrations⁷, decreased sperm counts^{7,8} and motility⁸, increased LH and FSH⁹, and reduced survival rate of offspring of dams treated with manganese chloride¹⁰. Based on this evidence, manganese is classified as a Group 2 reproductive toxicant.

References

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