

**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<sup>1,2</sup>. The available studies show conflicting results with regard to effects of manganese exposure on male fertility<sup>3-6</sup>. In contrast, animal studies show toxic effects such as reduced fertility, decreased plasma testosterone concentrations<sup>7</sup>, decreased sperm counts<sup>7,8</sup> and motility<sup>8</sup>, increased LH and FSH<sup>9</sup>, and reduced survival rate of offspring of dams treated with manganese chloride<sup>10</sup>. Based on this evidence, manganese is classified as a Group 2 reproductive toxicant.

**References**

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