

Vanadium and compounds

V

[CAS No. 7440-62-2]

Reproductive toxicant: Group 2

No epidemiology studies have been reported for reproductive toxicities of vanadium. Some animal studies have shown that vanadium has dominant lethal effects and other adverse effects on reproduction as well, including reduced fertility rate and lowered numbers of implantations, live fetuses and live births¹⁻⁴. Based on this evidence, vanadium is classified as a Group 2 reproductive toxicant.

References

- 1) Altamirano-Lozano M, Alvarez-Barrera L, Basurto-Alcantara F, et al. Reprotoxic and genotoxic studies of vanadium pentoxide in male mice. *Teratog, Carcino Mutagen* 1996; 16: 7-17.
- 2) Domingo JL, Paternain JL, Llobet JM, et al. Effects of vanadium on reproduction, gestation, parturition and lactation in rats upon oral administration. *Life Sci* 1986; 39: 819-24.
- 3) Llobet JM, Colomina MT, Sirvent JJ, et al. Reproductive toxicity evaluation of vanadium in male mice. *Toxicology* 1993; 80: 199-206.
- 4) Jandhyala BS, Hom GL. Physiological and pharmacological properties of vanadium. *Life Sci* 1983; 33: 1325-40.