

Acute Inhalation Toxicity Strontium chloride

Methods

To confirm acute inhalation toxicity, 3 male and 3 female rats per concentration were exposed to strontium chloride at concentrations 1 and 5 mg/L for 4 hours in nose-only chamber. It was measured the concentration of strontium chloride, particle size distribution and the chamber environment during the exposure time. Clinical signs and body weight changes were recorded for 14 days after the end of the exposure, and gross findings were observed after necropsy.

Results

The mean concentration of strontium chloride for was 1.049 ± 0.092 and 4.880 ± 0.191 mg/L during the exposure time. The aerosol mass median aerodynamic diameter (MMAD) was 3.692 and 3.479 µm, and the geometric standard deviation (GSD) was 2.1 and 1.6. No dead animals were observed in all test groups exposed to strontium chloride.

1.049±0.092 & 4.880±0.191 mg/L

3.692 & 3.479 µm

GSD 2.1 & 1.6

Conclusion

GHS Classification - Acute toxicity (inhalation - dusts and mists): Unclassified (LC50 > 5.0 mg/L)



Chemicals Research Bureau, Occupational Safety & Health Research Institute
30, Expo-ro 339beon-gil, Yuseong-gu, Daejeon, 34122, Republic of Korea

Tel. +82-42-869-8541 Fax. +82-42-869-8691 Homepage. http://oshri.kosha.or.kr/eoshri