

Acute Inhalation Toxicity

Sodium Nitrate

Methods

To confirm acute inhalation toxicity of sodium nitrate, 3 male and 3 female rats were nose-only exposed to sodium nitrate at 5 mg /L concentration for 4 hours. It was measured the concentration of sodium nitrate, 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 sodium nitrate was 5.091 mg/L during the exposure time. The aerosol mass median aerodynamic diameter (MMAD) was 2.662 μ m, and the geometric standard deviation (GSD) was 1.719. Tracheobronchial lymph node was observed in 1 male rat of the 5 mg/L. It was not observed abnormal clinical sign, body weight changes, and specific gross findings in other animals.

Sodium
nitrate5.091
mg/L

MMAD

2.662
 μ m

GSD

1.719

Conclusion

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

Laboratory



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>

All views expressed in the report are those of the Study Director only and do not represent the views of Occupational Safety & Health Research Institute.