



HASKELL LABORATORY

LEAD CHROMATE

The OSHA standard for working exposure is $100 \mu\text{g}/\text{m}^3$ as CrO_3 .

TOXICITY

Lead chromate is practically nontoxic on single exposure by the oral and inhalation routes (oral ALD > 5000 mg/kg in rats; inhalation of 34 mg/l/6 hr., no deaths) (1). Repeated or prolonged overexposure to the dusts can cause lead poisoning.

CARCINOGENICITY

A recent epidemiological study has shown that prolonged excessive inhalation of lead chromate pigment dust may produce lung cancer in humans (2).

For many years a high rate of lung cancer deaths has been known to be associated with the chromate producing industry. The exact causative agent remains obscure. However, lead chromate was not present in the chromate producing plants in which this excess was noted.

REFERENCES

1. Haskell Data, MR-0166-001.
2. Epidemiological study of workers exposed to lead chromate pigments. Dry Color Manufacture's Association (1976).

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