

TOXICITY AND HEALTH HAZARD SUMMARY

(does not include physical hazards - flammability, etc.)

CHEMICAL: Tricresyl phosphate (from mixed cresols)

SYNONYMS: Tritolyl phosphate; Lindol

PHYSICAL FORM: oily liquid

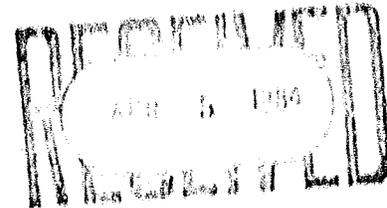
MP or BP in °C: BP 420

FORMULA:  PO

$C_{21}H_{21}O_4P$

TOXICITY:

The mixed isomers of tricresyl phosphate (ortho content less than 2%) has an LD<sub>50</sub> of >3200 mg/kg in rats by both oral and intraperitoneal routes. In mice, the oral LD<sub>50</sub> is >3200 mg/kg while intraperitoneally, the LD<sub>50</sub> is 800-1600 mg/kg. The compound does not appear to be a skin irritant although it can be absorbed through the skin.<sup>2</sup>



HAZARDS:

The extent of the hazard depends largely on the amount of the ortho isomer present since this is known to cause neuromuscular disturbances (paralysis). Heating the liquid may volatilize sufficient compound to constitute a hazard.

PRECAUTIONARY HANDLING:

Inhalation of heated vapor should be prevented by use of personal protection or adequate ventilation. Skin absorption should be avoided by changing contaminated clothing and washing contaminated skin areas as soon as possible after exposure.

REFERENCES:

1. Unpublished data, Laboratory of Industrial Medicine, Eastman Kodak Co., Rochester, N.Y.
2. Patty, F.A., editor, Industrial Hygiene and Toxicology, Vol. II, 2nd revised edition, 1963.

HEALTH HAZARD (EKCo. Safety Std. 7.09):

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