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Repeated Dose Skin Irritation Study on Jet Fuels - Preliminary Dose Range Finding Study

Authors: [W. Baker](#); [J. English](#); [D. Dodd](#); [J. McDougal](#); [T. Miller](#); [MANTECH-GEOCENTERS JOINT VENTURE DAYTON OH](#)

Abstract: JP-8 is the battlefield fuel for DoD and NATO countries. Questions have been raised about the human health implications of occupational exposure to JP-8, as compared to the phased out JP-4. No scientific information is available on the effect of repeated skin contact with JP-8. Before initiating an investigation using the rat as an animal model for skin irritation with **jet fuels**, several laboratory procedures needed to be addressed. During this preliminary dose range finding study, an opportunity to preview the nature and severity of skin lesions to be encountered in a subchronic repeated dose **jet** fuel study was gained. Depending on the type of fuel and the frequency of application, a range of skin response scores was determined, primarily on the basis of histopathological evaluation. In general, JP-4 was less irritating than JP-8. Seven recommendations for a definitive study are given.

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