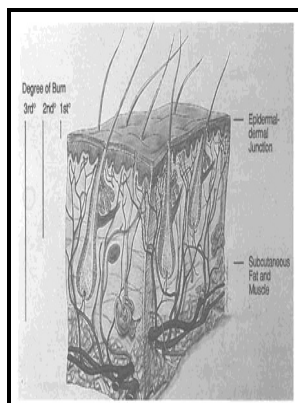


# Biochemical studies of the action of mustard gas and two of its derivatives.

## - - Chemistry of Mustard Compounds



Description: -

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### Biological and molecular mechanisms of sulfur mustard analogue

NRC National Research Council 2003.

### Toxicology of mustard gas

Explosive deployment partially destroys the payload—the amount of an initial dose of biological agent that remains after the explosion is minimal, and chemical agents are degraded by the high temperatures that occur during ignition.

### Mechanism of Action of 2

The kinetics of hydrolysis of vesicants. Morbidity, however, has often been high, which in part reflects a lack of medical preparedness for such an event.

### Mechanism of Action of 2

In several earlier studies on WWI veterans who had been exposed to sulfur mustard, leukemia was not identified as a possible effect, although it is unclear if examination for CML had ever occurred in those populations. This dusty formulation utilizes a solid carrier—such as silicon dioxide or talc—that can create breathable aerosols of mustard agent.

### A Study of Comparative Chemical and Biological Activities of Alkylating Agents1

Irreversible covalent bonds have formed 2 min after exposure to soman, after 5 h for sarin, after 13 h for tabun and after more than 48 h for VX gas. Hypoxaemia and ischaemia progress to multiple organ dysfunction and failure. At muscarinic synapses, AChE inactivation cause miosis, ciliary body spasm at high doses causing eye pain, glandular hypersecretion salivary, bronchial and lachrymal, sweating, bradycardia or atrioventricular block, QT prolongation, bronchoconstriction, vomiting, severe diarrhoea and urinary and faecal incontinence.

## **Mustard Uses, Benefits & Dosage**

Because of their physical properties, mustards are persistent under cool conditions however, evaporation increases as the temperature increases. The committee wishes to acknowledge that this study could not have been done without the assistance of a number of people, many of whom are listed in the acknowledgments section of this report. Atropine 2 mg is given i.

## Related Books

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