

Medical

MUSTARD AGENTS

Agent information: Chemical warfare agents are toxic chemicals that can cause

harm or death to people. These agents include sulfur mustard (H, HD, HT), lewisite, nitrogen mustard, mustard lewisite, and phosgene-oxime. Sulfur mustards are yellow to brown oily liquids with a slight garlic or mustard odor. Although volatility is low, vapors can reach hazardous levels during warm weather. Mustard agents are toxicologically part of a group of compounds

known as vesicants or corrosives.

Transmission: Primary exposure is inhalation or dermal absorption.

Signs and Signs and symptoms vary, depending on the route and level of symptoms: exposure.

> **Signs:** skin erythema and blistering, watery, swollen eyes; upper airways sloughing with pulmonary edema, metabolic failure. neutropenia, and sepsis, especially for sulfur mustard (late in

exposure).

Symptoms: burning, itching, or red skin; mucosal irritation (prominent tearing, and burning and redness of eyes), shortness of breath, nausea, and vomiting. Sulfur mustards are absorbed by the skin, causing erythema and blisters. Ocular exposure to these agents may cause incapacitating damage to the cornea and conjunctiva. Inhalation damages the respiratory tract epithelium and may cause death. Onset for lewisite is minutes;

sulfur mustard is hours to days.

Protective Utilize appropriate Level Personal Protective Equipment (PPE) measures:

as identified by the Environmental Protection Agency and

Hazmat protocols. People whose skin or clothing is

contaminated with sulfur mustard can contaminate rescuers by

direct contact or through off-gassing vapor.

Evaluation: Urine sample. The Division of Public Health will coordinate

testing with a qualified laboratory.

Prophylaxis: N/A

> **Emergency Medical Services and Preparedness Section 24/7 Emergency Contact Number: 1-888-295-5156** Contact Number: 302-223-2999

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Treatment: There is no antidote for mustard agents. The most important

factor is to quickly remove mustard agent from the body.

Treatment consists of supportive medical care.

Reporting: Any suspect cases should be reported immediately to the

Division of Public Health: 1-888-295-5156 (24/7 coverage).

Additional Visit the Centers for Disease Control and Prevention website:

information: https://emergency.cdc.gov/.