

FACT SHEET

Office of the Assistant Secretary of Defense (Health Affairs) **Deployment Health Support Directorate**

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Version 10-09-2002

Deseret Test Center

Green Mist

Shortly after President Kennedy's inauguration in 1961, the Secretary of Defense, Robert McNamara, directed that a total review of the U.S. military be undertaken. The study consisted of 150 separate projects. The chemical and biological warfare review was known as Project 112. As part of the Project 112 review, the Joint Chiefs of Staff convened a working committee that recommended a research, testing, and development program for chemical and biological weapons. To oversee this program, the Deseret Test Center was established at Fort Douglas, Utah, in 1962. Both land-based and ship-based tests were conducted during the period 1962 – 1973. The Deseret Test Center closed in 1973.

The primary purpose of Green Mist was to estimate the effective dosage area coverage that could be expected if sarin nerve agent-filled M139 bomblets were disseminated from four different weapons systems over a rain forest canopy.

Trials were conducted using sarin nerve agent and the simulant methylacetoacetate.

Green Mist was conducted on the island of Hawaii during the period of March 25 through April 24, 1967.

The Department of Defense (DoD) is providing this information, at the request of the Department of Veterans Affairs (VA), to assist the VA in providing healthcare services to qualified veterans and to assist veterans in establishing service connection for disability claims. The Deployment Health Support Directorate (DHSD) collected this information from multiple sources and requested that the military services declassify it to allow its public distribution. The VA accepts this information provided on location, dates, units and/or ships, and substances involved in this exercise, which DHSD extracted from classified DoD records, and will provide it to individual veterans as necessary, but the VA cannot verify its accuracy.

| Test Name | Green Mist (DTC Test 66-4) |
|---|---|
| Testing Organization | US Army Deseret Test Center |
| Test Dates | March 25 – April 24, 1967 |
| Test Location | Island of Hawaii |
| Test Operations | To determine the average dosage in a mountain rain forest of four chemical weapon systems employing the M139 sarin nerve agent bomblet. |
| Participating Services | Deseret Test Center |
| Units and Ships Involved | Not identified |
| Dissemination Procedures | M139 sarin nerve agent-filled bomblets were statically detonated at several heights below the canopy. |
| Agents, Simulants, Tracers | Sarin Nerve Agent Methylacetoacetate |
| Ancillary Testing | Not identified |
| Decontamination | Not identified |
| Potential Health Risks Associated with Agents, Simulants, Tracers | Sarin Nerve Agent (GB) Sarin gas is a volatile and lethal nerve agent. It can enter the body by inhalation, ingestion, through the eyes, and to a lesser extent through the skin. After exposure to a sufficient dose, human symptoms may occur within minutes and include runny nose, watery eyes, difficulty breathing, dimness of vision, confusion, drowsiness, coma, and death. Very little information is available regarding long-term health effects following exposures to low levels that do not cause acute symptoms. No information is available regarding potential carcinogenicity. An Institute of Medicine committee concluded that there was insufficient evidence for or against an association |

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between low-level sarin exposure and long-term health effects.

(Sources: http://www.bt.cdc.gov/Agent/Nerve/Sarin/Sarin.asp [as of February 13, 2002]Institute of Medicine (National Academies), Gulf War and Health (vol.1): Depleted Uranium, Pyridostigmine Bromide, Sarin, Vaccines. National Academy Press, Washington DC, 2000.)

Methylacetoacetate (MAA)

This compound was used as a simulant. While acute exposure has been associated with irritation of skin, eyes, respiratory tract, and digestive tract, there is little or no evidence of long-term or late-developing health effects and it is not known to cause cancer in animal testing.

(Sources: NLM TOXNET, Methylacetoacetate 105-45-3, HSDB Human Health Effects and Animal Toxicity Studies, available at http://toxnet.nlm.nih.gov.http://hazard.com/msds/tox/f/q4/q936.html [as of January 28, 2002] and http://www.hbcollege/chem/lab/organic/gilbert3e/resources/studenttools/dl/e_mmsds.pdf)

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