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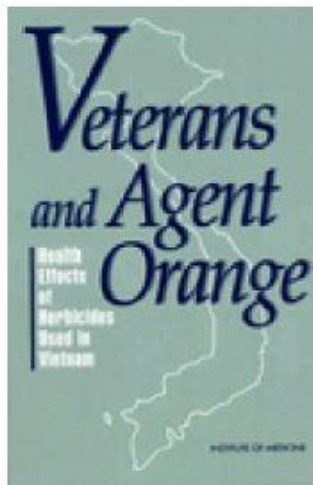
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Veterans and Agent Orange: Health Effects of Herbicides Used in Vietnam

Committee to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides, **Institute of Medicine**

ISBN: 0-309-55619-8, 832 pages, 6 x 9, (1994)

This PDF is available from the National Academies Press at:
<http://www.nap.edu/catalog/2141.html>

TOXICITY PROFILE OF 2,4,5-TRICHLOROPHENOXYACETIC ACID (2,4,5-T)

Introduction

- Like 2,4-D, 2,4,5-T (2,4,5-trichlorophenoxyacetic acid; CAS No. 93-76-5; [Figure 4-1](#)) was developed during World War II as an herbicide to control the growth of broadleaf plants and weeds on range
- lands, lawns, golf courses, forests, roadways, parks, and agricultural land (CCT, 1987). Most of these
- uses were banned by the U.S. Department of Health, Education and Welfare, the Department of Agriculture, or the Environmental Protection Agency between 1969 and 1972 because of the
- suspicion that 2,4,5-T might be a human health hazard. The subsequent discovery that 2,4,5-T is
- generally contaminated with TCDD has led many to conclude that the reported adverse effects were
- due to this contaminant (Lilienfeld and Gallo, 1989). The registration for 2,4,5-T was canceled by the EPA in 1978.

When purified, 2,4,5-T is an odorless, white to light-tan solid with a melting point of 158°C. This compound is noncorrosive, and is soluble in alcohol and water. 2,4,5-T reacts with organic and inorganic bases to form salts, and with alcohol to form esters. As stated, commercial formulations of

- 2,4,5-T used during the Vietnam war contained TCDD as a contaminant from the manufacturing process.

Federal Stock No. 6840-577-4201
Herbicide, 2,4,5-T
Commercial Name "2,4,5-T"
CAS No. 93-76-5
55 gal drum

The CAS Registry Number® Database

The database contains the CAS Registry Number®, chemical names (both formal and common), molecular formulas, and structures or sequences for ~7900 chemicals of widespread general public interest. These substances are of global commercial use or importance and have been cited 1,000 or more times in the [CAS databases](#).