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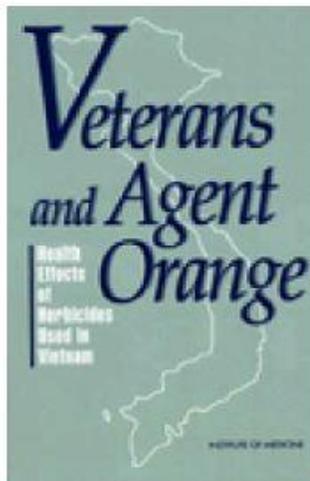
***If Veterans don't help Veterans, who will?***

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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](#).