VALUE(S) REMOVED

Date: July 26, 1984

## Surface Water Quality Standard Documentation

Chemical: Demeton

C.A.S, No.(s): 8065-48-3, 298-03-3; 126-75-0

Basis (Human/Aquatic): Aquatic

## Standard by Water Classification:

	<u>ug/1</u>	Notes
Classes AA,AA-s;A;A-s;B;C	0.1	J
Class D		
Classes SA;SB;SC;I	0.1	J
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Class SD

Remarks: None

## Summary of Information

- EPA. 1976. Quality criteria for water. EPA 440/9-76-023. USEPA, Wash., D.C. 256 pp.
   -criterion: "0.1 ug/l for freshwater and marine aquatic life."
   -based on persistence of its Acetyl cholinesterase inhibiting ability.
   -report a 96-hour LC<sub>50</sub> for Gammarus fasciatus of 27 ug/l.
- Johnson, W.W. and M.T. Finley. 1980. Handbook of acute toxicity of chemicals to fish and aquatic invertebrates. USDOI Fish and Wildl. Serv. Resource Pub. 137, Wash., D.C. 98 pp.
   -report a 48-hour EC<sub>50</sub> for <u>Daphnia pulex</u> of 14 ug/1.

## Standard Derivation

Multiplication of the D. pulex EC<sub>50</sub> by an application factor of 0.01 results in a criterion of 0.1 ug/1. This value agrees with the criterion recommended by EPA (1976). The standard of 0.1 ug/1 should be adopted for all surface fresh and salt water classes except classes D and SD.