CRIT-01017 -01018 CRIT-00987 -00988

TIER II ACUTE AND CHRONIC AQUATIC LIFE VALUES FOR ALACHLOR

Standard:

The procedures described in the Tier II methodology indicate that, except possibly where a locally important species is very sensitive, aquatic organisms should not be affected unacceptably if the four (4) day average concentration of alachlor does not exceed 20 µg/L more than once every three (3) years on the average and if the one (1) hour average concentration does not exceed 180 µg/L more than once every three (3) years on the average.

Calculations:

Acute Aquatic Life:

SAV = lowest GMAV/SAF

Lowest GMAV = 7,900 µg/L
SAF = 21.9

SAV = 7,900/21.9 = 360.7 µg/L

SMC = SAV/2 = 360.7/2 = **180 µg/L**

Chronic Aquatic Life:

SCV = SAV/SACR

SACR = 18

SCV = 360.7/18 = **20 µg/L**

Notes:

NONE

Table 1. GMAVs and SMAVs for alachlor

Genus Mean Acute Value (µg/L)	Species	Species Mean Acute Value (µg/L)	Acute-Chronic Ratio	Reference Number
7,900	Cladoceran *Ceriodaphnia dubia*	7,900		1

References:

1. Oris, J.T., R.W. Winner, and M. Moore 1991. A four-day survival and reproduction toxicity test for *Ceriodaphnia dubia*. Environ. Toxicol. Chem. 10: 217-224.

Last Modified:
February 15, 1999