

Chemical Name: Vinyl ChlorideDeveloped by: Chris J. SkalskiCAS # 75-01-4Data Retrieval Date: 11-03-00Internal Code # 125Fact Sheet Preparation Date: 3-01-06

ACUTE DATA

<u>SPECIES</u>	<u>EC₅₀/LC₅₀</u> <u>(µg/l)</u>	<u>TEST TYPE^a</u>	<u>DURATION</u> <u>(HOURS)</u>	<u>SMAV^b</u> <u>(ug/l)</u>	<u>GMAV^b</u> <u>(ug/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
Cladoceran <i>Daphnia magna</i>	521,000	S,U	48	521,000	521,000	1
Fathead Minnow <i>Pimephales promelas</i>	218,000	S,U	96	218,000	218,000	1

^a S = static; U = unmeasured.^b SMAV = Species Mean Acute Value; GMAV = Genus Mean Acute Value.

CHRONIC DATA

<u>SPECIES</u>	<u>CHRONIC VALUE</u> <u>(µg/l)</u>	<u>METHOD</u>	<u>SMCV^a</u> <u>(µg/l)</u>	<u>GMCV^a</u> <u>(µg/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
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None Available

^a SMCV = Species Mean Chronic Value; GMCV = Genus Mean Chronic Value.

REFERENCES

1. RMT, Inc. 2000. Findings of the Toxicity Testing for Vinyl Chloride Conducted as Part of the Situation-Specific Response Plan for ACL Exceedences in Ground Water.

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<u>Data Requirement</u> <u>OAC 3745-1-36(A)(1)</u>	<u>SPECIES</u>	<u>GMAV</u> <u>(µg/l)</u>
(c)	Fathead Minnow	521,000
(d)	<i>Daphnia magna</i>	218,000

Secondary Acute Factor (SAF) = 13.0

Secondary Acute Value (SAV) = Lowest GMAV ÷ SAF
 = 218,000 ÷ 13.0
 = 16,769 = 17,000 ug/l

Tier II Acute Aquatic Value (AAV) = SAV ÷ 2
 = 16,769 ÷ 2
 = 8,385 = 8,400 ug/l

CALCULATION OF CHRONIC AQUATIC VALUE (CAV)^a

Experimentally determined Acute-Chronic Ratios (ACRs):

<u>SPECIES</u>	<u>ACUTE VALUE</u> <u>(µg/l)</u>	<u>CHRONIC VALUE</u> <u>(µg/l)</u>	<u>ACUTE-CHRONIC</u> <u>RATIO</u>	<u>SPECIES MEAN</u> <u>ACR</u>
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None Available

Secondary Acute-Chronic Ratio (SACR) = $\sqrt[3]{(18)(18)(18)} = 18$

Chronic Aquatic Value (CAV) = SAV ÷ SACR
 = 16,769 ÷ 18
 = 932 = 930 ug/l

^aSee Ohio Administrative Code 3745-1-36 effective February 22, 2002.