

OHIO EPA SURFACE WATER QUALITY CRITERION FACT SHEET

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Chemical Name: 1,3-Butadiene Developed by: Chris Skalski

CAS # 106-99-0 Data Retrieval Date: 2-14-95

Internal Code # --- Fact Sheet Preparation Date: 5-16-06

Reviewed by: Bob Heitzman

ACUTE DATA

<u>SPECIES</u>	<u>EC₅₀/LC₅₀</u> <u>(µg/l)</u>	<u>TEST TYPE</u>	<u>DURATION</u> <u>(HOURS)</u>	<u>SMAV^a</u> <u>(µg/l)</u>	<u>GMAV^a</u> <u>(µg/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
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No Acute Data

^a 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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No Chronic Data

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

REFERENCES

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CALCULATION OF ACUTE AQUATIC VALUE (AAV)^a

Data Requirement <u>OAC 3745-1-36(A)(1)</u>	<u>SPECIES</u>	GMAV <u>(µg/l)</u>
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Secondary Acute Factor (SAF) =

Secondary Acute Value (SAV) = Lowest GMAV ÷ SAF
 =
 = Insufficient data available

Tier II Acute Aquatic Value (AAV) = SAV ÷ 2
 = ÷ 2
 = Insufficient data available

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
 = ÷ 18
 = Insufficient data available

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

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