

OHIO EPA SURFACE WATER QUALITY CRITERION FACT SHEET

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Chemical Name: Dichlorodifluoromethane Developed by: Chris J. Skalski

CAS # 75-71-8 Data Retrieval Date: 7-09-98

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

ACUTE DATA

<u>SPECIES</u>	<u>EC<sub>50</sub>/LC<sub>50</sub></u> <u>(µg/l)</u>	<u>TEST TYPE</u>	<u>DURATION</u> <u>(HOURS)</u>	<u>SMAV<sup>a</sup></u> <u>(µg/l)</u>	<u>GMAV<sup>a</sup></u> <u>(µg/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
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No Acute Data

<sup>a</sup> 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<sup>a</sup></u> <u>(µg/l)</u>	<u>GMCV<sup>a</sup></u> <u>(µg/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
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No Chronic Data

<sup>a</sup> SMCV = Species Mean Chronic Value; GMCV = Genus Mean Chronic Value.

REFERENCES

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CALCULATION OF ACUTE AQUATIC VALUE (AAV)<sup>a</sup>

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

$$=$$

$$= \text{µg/l}$$

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

$$= \text{µg/l} \div 2$$

$$= \text{µg/l}$$

CALCULATION OF CHRONIC AQUATIC VALUE (CAV)<sup>a</sup>

Experimentally determined Acute-Chronic Ratios (ACRs):

<u>SPECIES</u>	ACUTE VALUE ( <u>µg/l</u> )	CHRONIC VALUE ( <u>µg/l</u> )	ACUTE-CHRONIC <u>RATIO</u>	SPECIES MEAN <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

$$= \text{µg/l} \div 18$$

$$= \text{µg/l}$$

<sup>a</sup>See Ohio Administrative Code 3745-1-36 effective February 22, 2002.

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