

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

March 6, 2009

TO: File for Bromodichloromethane (CAS No. 75-27-4)  
FROM: Michael Depa, Toxics Unit, Air Quality Division  
SUBJECT: Development of the Screening Level

The U.S. EPA Integrated Risk Information System (IRIS) provides an oral potency value for bromodichloromethane of 6.2E-2 per mg/kg/day. As per Rule 231(3)f, this potency was converted to an inhalation unit risk via the following equation:

$$6.2E-2(\text{mg/kg/day})^{-1} \times 20\text{m}^3/70\text{kg} \times 1\text{mg}/1000\mu\text{g} = 1.77E-5(\mu\text{g}/\text{m}^3)^{-1}$$

The initial risk screening level (IRSL) for bromodichloromethane is calculated according to Rule 231(1):

$$\text{IRSL} = (1E-6)/\text{unit risk}$$

$$\text{IRSL} = (1E-6)/1.77E-5(\mu\text{g}/\text{m}^3)^{-1}$$

$$\text{IRSL} = 0.056 \mu\text{g}/\text{m}^3$$

$$\text{IRSL} = 0.06 \mu\text{g}/\text{m}^3$$