Di(2-ethylhexyl)phthalate (DEHP)

CAS 117-81-7

Current North Carolina AAL = 0.03 mg/m³ (24 hour, chronic toxicant)

AAL Documentation

The pre-1989 ACGIH TLV value for DEHP was 5 mg/m³ (equivalent to 0.3 PPM).

A factored TLV approach was used to derive a 24 hour chronic AAL for DEHP.

In accordance with guidance provided by the North Carolina Academy of Sciences (1986/1987), the following uncertainty factors were used:

- Population variability: Factor of 10
- Time conversion (8 hour work day to continuous exposure): Factor of 4.
- Experimental uncertainty associated with chronic studies: Factor of 2.
- Severity of effect: Factor of 2 (DEHP is a confirmed animal carcinogen with unknown relevance to humans)

Total multiplicative uncertainty factor = 10 x 4 x 2 x 2 = 160

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\frac{5 \text{ mg/m}^3 \text{ DEHP}}{160} = 0.03 \text{ mg/m}^3
\]

This information has been reconstructed using the decision matrix established by the North Carolina Academy of Sciences Air Toxics Panel, September, 1986.