CHEMICAL: Mercury (Alkyl) (#46-1)

TLV - TWA: 0.01 mg/m³ as Hg

TVL - STEL: 0.03 mg/m³ as Hg

<table>
<thead>
<tr>
<th>Symptoms/Conditions</th>
<th>Level</th>
<th>Acute/Chronic</th>
<th>Reference</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effects reported at concentrations greater than 10 x TLV</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Conclusions

Chronic toxicant
Starting point 0.01 mg/m³ as Hg
Adjustment factors: 10 x 2 (chronic) x 2 (severity) x 4 (continuous) = 160
Recommended AAL 0.00006 mg/m³ (24 hr)

Comments

Alkyl mercury compounds can produce gastric, pancreatic, hepatic, cardiac and gonadotoxic effects (D:R3P360). It is not clear from the available information whether these effects can be seen within a ten-fold range of the TLV. Because of the difficulty in eliminating this compound from the body, as well as its affinity for the central and peripheral nervous system and the kidney, these compounds could be expected to accumulate in exposed individuals. They should therefore be considered severe chronic toxicants.

AAL: $6 \times 10^{-5} \text{ mg/m}^3$, 24-hr averaging time, 1987

D: Documentation of Threshold Limit Values, 1986 (R: reference, P: page)
R: Registry of Toxic Effects of Chemical Substances