Beryllium and Compounds

CAS
7440-41-7 (Beryllium)
7787-47-5 (Beryllium chloride)
7787-49-7 (Beryllium fluoride)
13597-99-4 (Beryllium nitrate)

Risk Analysis Background Documentation

AAL Recommendation

\[
\text{Inhalation Unit Risk (IUR)^2} = 2.4 \times 10^{-3} \ \mu g/m^3
\]

\[
\frac{1}{2.4 \times 10^{-3}} = \frac{x}{1 \times 10^{-5}}
\]

Linear calculation

\[
x = \frac{1 \times 10^{-5}}{2.4 \times 10^{-3}}
\]

\[
x = 4.17 \times 10^{-3} \ \mu g/ m^3
\]

\[
= 4.1 \times 10^{-6} \ \text{mg/m}^3
\]

NOTE: To include beryllium, beryllium chloride, beryllium fluoride, and beryllium nitrate. This should read “Beryllium and compounds”, and should be assessed as beryllium, which should be all encompassing, including all forms of beryllium.

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1 Memorandum sent to Sharon Keesling from Dr. Beth Mileson, dated 9-21-94.