

Charge to Peer Reviewers

ATSDR Toxicological Profile for 1,3-Butadiene Review of Minimal Risk Level (Withdrawn)

WRITTEN COMMENTS ARE DUE NO LATER THAN WEDNESDAY, MARCH 21, 2012

In the public comment draft of the toxicological profile for 1,3-butadiene, ATSDR had derived an acute-duration inhalation MRL of 0.1 ppm based on reduced male fetal body weight gain in offspring of mice exposed to 40 ppm of 1,3-butadiene 6 hours/day on gestation days 6-15 (DOE/NTP 1987b). After the public comment period, ATSDR reevaluated the MRL and determined that the MRL be withdrawn due to lack of mechanistic data that could be used to identify relevant internal dose metrics.

Please review the MRL discussions, specifically, the Rationale Statement and the MRL discussion in Chapter 2 and provide comments on the MRLs as to the following:

1. Are the discussions of the withdrawal of the acute-duration MRL for 1,3-butadiene logical and clear?
2. Please comment on the withdrawal of the acute-duration inhalation MRL and the justification for its withdrawal.
3. Are you aware of other studies that would impact the MRL?
4. Do you concur with the withdrawal of the acute-duration inhalation MRL as documented?

Included in your packet is a copy of ATSDR's documents for review, and a CD-ROM that contains background material including a draft of the profile, tables and figures, and the Kirman et al. 2010a paper that discusses species differences in 1,3-butadiene metabolism.

3/1/12