

# TOXICOLOGY VALUES FOR HUMAN HEALTH

SRC's toxicology group is nationally recognized as one of the most experienced teams in the **evaluation of epidemiologic and toxicologic data for deriving human health toxicity values**

## RECENT PROJECT HIGHLIGHTS

### IRIS

SRC, Inc., has supported the U.S. Environmental Protection Agency Integrated Risk Information System program since 1988. SRC scientists have developed draft IRIS Toxicological Reviews for more than 50 chemicals under the direction of EPA Chemical Managers. IRIS Toxicological Reviews involve a thorough and critical review of the available toxicity data; hazard identification; dose-response assessment for oral and inhalation routes of exposure; application of physiologically-based pharmacokinetic and benchmark dose/concentration models; and evaluation of sensitive populations, route extrapolation and mode of action information in accordance with EPA guidelines.

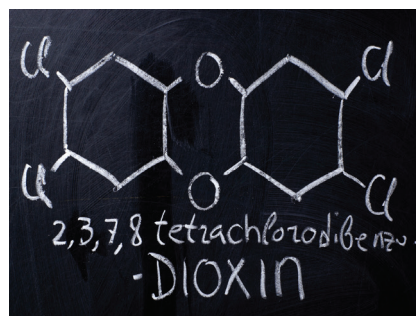
### ATSDR

SRC has supported the Agency for Toxic Substances and Disease Registry Toxicological Profile Program since 1988 developing and updating more than 100 Toxicological Profiles. Other ATSDR reports prepared by SRC include: Chemical Evaluation Summaries, Medical Management Guidelines, Priority Data Needs Documents, Health Consultations, English Fact Sheets, Spanish Fact Sheets and Public Health Statement, and Chemical Interaction Profiles. These reports involved assessing human exposures to environmental chemicals; deriving acute,

intermediate and chronic Minimal Risk Levels, or MRL; evaluating adequacy of existing data and identifying data needs; deriving and evaluating quantitative structure activity relationships or QSARs; and developing approaches to quantitative assessment of toxicological interactions of chemical mixtures.

### Superfund Technical Support Center

Since 1990, SRC has provided technical support for risk assessments for the Superfund Technical Support Center, or STSC, with the EPA. More than 500 issue papers for "rapid-response requests" for risk assessment have been prepared by SRC, including provisional cancer and non-cancer toxicity values for more than 150 chemicals, evaluations of risk assessment guidance and reviews of site-specific risk assessments. SRC toxicologists evaluated health effects data, selected critical effects and derived cancer and non-cancer toxicity values considering issues related to sensitive populations, route extrapolations and site-specificity.



**SRC TOXICOLOGISTS HAVE EVALUATED MORE THAN 1,000 CHEMICALS AND MIXTURES FOR HUMAN HEALTH EFFECTS**

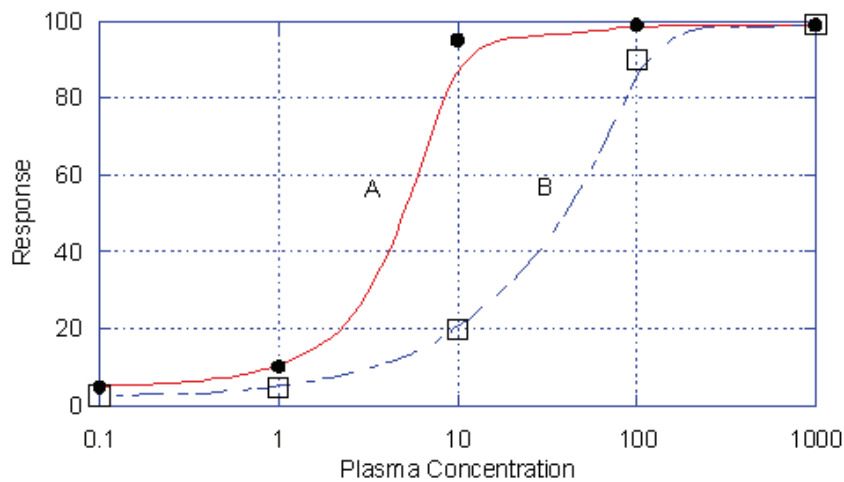


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### SUPPORT ACTIVITIES

SRC provides support on a wide-range of activities associated with human health risk assessment:

- Feasibility evaluations and data adequacy for toxicity assessments
- Derivation of provisional cancer and non-cancer toxicity values for chemical and biological, physical and radiological agents
- Expert peer review of toxicity reviews, risk assessments and methodology
- Scientific literature searches with access to SRC's extensive archives and in-house databases



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