

Prioritization: Applying Epidemiology Data Screen and First Animal Data Screen

Staff Update

Nov. 5, 2008

Carcinogen Identification Committee Meeting



Prioritization Process

Tracking Database



Candidate Chemicals



Screens: Focused Literature Review

Chemicals Proposed for Committee Consideration*



*Consultation with the Committee on Chemicals for Review **



OEHHA Selection of Chemicals for
Preparation of Hazard Identification Materials



Possible Animal Data Screens

Discussed at Nov. 2007 CIC Meeting

Proposed Screen 1

- Chemicals with:
- Two or more positive* animal cancer bioassays; or
 - One positive* animal cancer bioassay, with
 - Malignant (or combined malignant and benign) tumors occurring to an unusual degree with regard to incidence, site or type of tumor or age at onset; or
 - findings of tumors at multiple sites

Proposed Screen 2

- Chemicals with:
- One positive* animal cancer bioassay and
 - Structure-activity comparisons with a known carcinogen; or
 - Evidence from a second animal study of benign tumors known to progress to malignancy; or
 - Evidence that the chemical operates by a mechanism known to be involved in human carcinogenesis (e.g., genotoxicity, altered gene expression, immune suppression, hormone disruption)

* An increased incidence of malignant or combined malignant and benign tumors



2008 Animal Data Screen

Chemicals with

- Two or more positive* animal cancer bioassays; or
- One positive* animal cancer bioassay, with
 - Malignant (or combined malignant and benign) tumors *occurring to an unusual degree* with regard to incidence, site or type of tumor or age at onset; or
 - Findings of *tumors at multiple sites*
 - Evidence from a *second animal study* of *benign tumors known to progress to malignancy*

*An increased incidence of malignant or combined malignant and benign tumors



2008 Screening of Candidate Chemicals (N = 380)

1. Re-apply **Epidemiology Data Screen**
2. Apply **2008 Animal Data Screen**
3. Conduct *Preliminary Toxicological Evaluation* of chemicals identified through these screens

Identify the next group of Chemicals Proposed for Committee Consideration

