

## Changes to the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values

**April 2014**

In the process of updating the Air Toxics Hot Spots Risk Assessment Guidelines, OEHHA conducted a review of all chemical summaries. In their review, target organs were clarified for some pollutants, the applicability of health values were changed for several pollutants, and a new policy was made to treat development and reproductive system as one target organ. In addition, OEHHA has adopted new Reference Exposure Levels (RELs) for caprolactam. These updates are reflected in OEHHA's Online REL and Cancer Potency Table at <http://oehha.ca.gov/air/allrels.html>. With these updates, the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values has also been updated to reflect recent changes to OEHHA's REL and Cancer Potency Table. For questions or more information on the changes, please contact Daryn Dodge of OEHHA at (916) 445-9375.

The tables below summarize the changes in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values.

### Acute RELs Updates

Pollutant (CAS Number)	Description of Change
Caprolactam (105-60-2)	Acute REL ( $50 \mu\text{g}/\text{m}^3$ ) was added. Eyes were added as a target organ.
Chloroform (67-66-3)	Respiratory system was added as a target organ.
Methylene Chloride (75-09-2)	Cardiovascular system was added as a target organ.
Styrene (100-42-5)	Reproductive/Development was added as a target organ.
Xylenes (1330-20-7, 108-38-3, 95-47-6, & 106-42-3)	Nervous system was added as a target organ.

### 8-Hour RELs Updates

Pollutant (CAS Number)	Description of Change
Caprolactam (105-60-2)	8-Hour REL ( $7 \mu\text{g}/\text{m}^3$ ) was added. Respiratory system was added as a target organ.

### Chronic Inhalation RELs Updates

Pollutant (CAS Number)	Description of Change
Caprolactam (105-60-2)	Chronic REL ( $2.2 \mu\text{g}/\text{m}^3$ ) was added. Respiratory system was added as a target organ.
Diethanolamine (111-42-2)	Cardiovascular and nervous systems were deleted as target organs. Hematologic and respiratory systems were added as target organs.
Fluorides and Hydrogen Fluoride (7664-39-3)	Target organ for these substances was reconfigured so that "Bone and Teeth" are a combined target organ.

Oleum (8014-95-7)	The chronic REL was deleted.
Xylenes (1330-20-7, 108-38-3, 95-47-6, & 106-42-3)	Eyes were added as a target organ.

### Chronic Oral RELs Updates<sup>1</sup>

Pollutant (CAS Number)	Description of Change
Fluorides and Hydrogen Fluoride (7664-39-3)	Target organ for these substances was reconfigured so that "Bone and Teeth" are a combined target organ.
Selenium and compounds (other than Hydrogen Selenide) (7782-49-2 & 744634-6)	Oral REL (5.0E-03 mg/kg-d) was added. Alimentary, cardiovascular, and nervous systems were added as target organs.

<sup>1</sup> – The selenium oral REL will be included in HARP once all parts of the Hot Spots Risk Assessment Guidelines are adopted by OEHHA.

### Cancer Potency Factor Update

Pollutant (CAS Number)	Description of Change
Hexavalent Chromium (18540-29-9)	An oral cancer potency factor (CPF) has been added for use in the Hot Spots program. The oral CPF (5.0E-01 mg/kg-d <sup>-1</sup> ) was developed by OEHHA for the California Public Health Goal for drinking water.

### General REL Change

Pollutant (CAS Number)	Description of Change
All pollutants with development or reproductive system target organs	OEHHA's new policy is to treat development and reproductive system as one target organ. However, for compatibility purposes between different HARP versions, these target organs were not combined in the HARP Health Database. Instead, reproductive system was added a target organ for RELs with development listed as a target organ and vice versa. The result is consistent with OEHHA's policy in that hazard index scores will be the same for development and reproductive system target organs.

The Consolidated Table can be downloaded at:

<http://www.arb.ca.gov/toxics/healthval/healthval.htm>.

The HARP Health Database has also been updated to reflect the changes discussed above. The latest HARP Health Database can be downloaded at:

<http://www.arb.ca.gov/toxics/harp/software/health.mdb>.