



## CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC) HUMAN AND ECOLOGICAL RISK OFFICE (HERO)

HERO is pleased to announce our eighth “Quarterly Updates from HERO” – September 2017

**1. NEW California Maximum Contaminant Level (MCL) for 1,2,3-Trichloropropane (TCP).** The California State Water Resources Control Board has adopted a drinking water maximum contaminant level (MCL) for 1,2,3-trichloropropane of 5 parts per trillion (ppt) or 0.005 µg/L. For more information please see: [https://www.waterboards.ca.gov/press\\_room/press\\_releases/2017/pr071817\\_123tcp.pdf](https://www.waterboards.ca.gov/press_room/press_releases/2017/pr071817_123tcp.pdf) and [http://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/123TCP.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/123TCP.shtml).

**2. Updated Human Health Risk Assessment (HHRA) Note 3 – DTSC-Modified Screening Levels (DTSC-SLs), August 2017.** The update to the HHRA Note is described below with a link to the entire HHRA Note:

HHRA Note 3. The August 2017 Update to HHRA Note 3 incorporates changes adopted by the USEPA in their June 2017 Regional Screening Levels (RSLs). This includes updates to several toxicity criteria. The following analytes were removed from the tables: 1) five analytes from the soil screening levels (1,3-dichlorobenzene, 1,3,5-trimethylbenzene, cyanogen, cyanogen bromide, and cyanogen chloride); two analytes from the tap water screening levels (gamma-hexachlorocyclohexane [HCH] and perfluorobutane sulfonate); and five analytes from the air screening levels (alpha-HCH, gamma-HCH, nickel subsulfide, perfluorobutane sulfonate, and 1,3,5-trimethylbenzene). Additionally, four analytes have revised screening levels due to changes with USEPA’s toxicity values (benfluralin, bromoxynil octanoate, triallate, and S-ethyl dipropylthiocarbamate). Finally, the tap water and air screening levels for tetrachloroethene (PCE) slightly increased due to use of the USEPA’s inhalation reference concentration instead of the California reference exposure level.

The updated HHRA Note 3 can be found at: [https://dtsc.ca.gov/AssessingRisk/upload/HHRA\\_Note\\_3\\_August-2017.pdf](https://dtsc.ca.gov/AssessingRisk/upload/HHRA_Note_3_August-2017.pdf) and <http://www.dtsc.ca.gov/assessingrisk/humanrisk2.cfm>.

**3. June 2017 USEPA Regional Screening Levels (RSLs).**

The USEPA released the latest version of the RSLs. The RSL tables can be found at:

<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-june-2017>. Below is a list of ‘What’s New in the June 2017’ version of the RSLs:

- Chemicals with toxicity value changes due to [IRIS](#) updates are:
  - ethylene oxide - has a new [IRIS](#) profile, and
  - benzo[a]pyrene and chemicals with associated relative potency factors were updated based on the new [IRIS Profile](#).
  - ammonia,
  - 1,3,5-trimethylbenzene, 1,2,3-trimethylbenzene, and 1,2,4- trimethylbenzene,
  - IRIS has archived [51](#) chemical assessments for pesticides and has recommended the use of the toxicity values presented in the human health benchmarks for pesticides (HHBP) table. Office of Pesticide Program (OPP) lists [363](#) pesticides in the HHBP table. Only the 51 archived by IRIS will be used in the RSL calculations. The food quality protection factors (FQPA) will be applied to the RfDs, if available. Derivation of the RfDs, for use in RSL calculations, is done by dividing the given RfD by the FQPA to derive a value that is more protective.
- Chemicals with new toxicity values due to [ATSDR](#) updates are:
  - hydrogen sulfide and carbonyl sulfide (subchronic only),
  - JP-5, JP-8, and Jet A Fuels (subchronic only),
  - parathion (subchronic only), and
  - polybrominated diphenyl ethers (PBDEs) (subchronic only).

- Chemicals with new toxicity values due to [PPRTV](#) updates are:
  - p-chlorobenzenesulfonic acid
  - phenylenediamine, o-,
  - aminophenol, o-,
  - trichloro-1,2,2-trifluoroethane, 1,1,2-,
  - heptane, N-,
  - mercaptobenzothiazole, 2-,
  - rubidium, (subchronic only)
  - tribromophenol, 2,4,6-,
  - rubidium chloride, (subchronic only)
  - rubidium hydroxide, (subchronic only)
  - rubidium iodide, (subchronic only)
  - methylphenol, 3-, (subchronic only)
  - dimethylaniline, N,N-, (subchronic only)
  - phenylenediamine, p-,
  - cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-,
  - dichloropropane, 1,2-,
  - dimethylphthalate, (subchronic only)
  - guanidine nitrate, and
  - phenyl isothiocyanate.
- Perfluorobutane Sulfonate (PFBS) was changed to Perfluorobutane sulfonic acid (PFBS). Perfluorobutanesulfonate (45187-15-3) was added with same parameters as Perfluorobutane sulfonic acid (PFBS).

4. Risk and Decision Making Workshop – HERO will be teaching three Risk and Decision Making Workshop courses at our Northern and Southern California Regional offices.

Cal Center Regional Office – October 16<sup>th</sup> and 17<sup>th</sup>, 8:30 a.m. to 4:30 p.m.

Berkeley Regional Office – November 6<sup>th</sup> and 7<sup>th</sup>, 8:30 a.m. to 4:30 p.m.

Cypress Regional Office – January 10<sup>th</sup> and 11<sup>th</sup>, 2018, 8:30 a.m. to 4:30 p.m.

This course has been approved by Toxics University and will allow participants, after supervisor's approval, to sign up through the Employee Training Center.

5. OEHHA "Schoolscreen" Spreadsheet. Please note, HERO no longer recommends the use of the OEHHA "Schoolscreen" spreadsheet when evaluating school sites. The spreadsheet model was last updated in January 2010, and thus, outdated and does not reflect changes to toxicity criteria or current risk assessment practice. If your site uses the Schoolscreen spreadsheet, please contact your site HERO toxicologist to determine the best path forward.

6. HERO News E-List. HERO has created a list serve where subscribers will receive e-mail notifications regarding news on topics related to human and ecological risk assessment including HERO Quarterly Updates, new and updated HHRA Notes, new and updated EcoNotes, as well as other risk assessment guidance documents, presentations, and publications.

To subscribe: 1) Go to the "E-Lists" tab near the upper right border of any DTSC or HERO web page; 2) Please read the instructions on signing up for E-Lists; 3) Scroll down until you see "**HERO News**", click "**Subscribe**", then fill out the requested information.

The direct link to the DTSC E-List sign-up page can be found at:

<http://www.dtsc.ca.gov/ContactDTSC/ELists.cfm>.

Please contact your site toxicologist if you have any site-specific questions or the contact person indicated in each HERO HHRA Note document for more general questions.

Thank you,

HERO