

## John Richardson

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**From:** John Richardson  
**Sent:** Wednesday, March 11, 2020 9:30 AM  
**To:** Julie McClintock; Nick Torrey; Megan Kimball; Pamela Schultz  
(pamela.b.schultz@gmail.com)  
**Cc:** Maurice Jones; Flo Miller; Mary Jane Nirdlinger; Vencelin Harris; Laura Selmer; David Duncklee; Justin Ballard  
**Subject:** Responses to Questions from Feb 12 Meeting  
**Attachments:** EPA RSL.pdf; South EU-IM&No BG.xlsx

Hi Julie, Nick, Megan and Pamela:

We have worked with our consultant, Duncklee and Dunham, to provide answers to the six questions/requests (in italics) that we heard you raise in our meeting on February 12<sup>th</sup>. This information applies to the ongoing risk evaluation of interim measures being implemented along the Bolin Creek Greenway Trail. Two supporting files are attached.

Does this information address your questions/requests?

On behalf of our team,  
John

1. *Request the current version of the NCDEQ risk calculator tool (RCT) spreadsheet.*

The current version being used to show protectiveness of the interim measures along the Bolin Creek Trail is attached. This is a working document which will be updated as more data is collected by the interim measures tasks.

2. *Summarize how the use of the RCT is protective.*

- The RCT is a Microsoft Excel-based, menu driven program, designed and developed by NCDEQ for use at contaminated sites as a risk and toxicological evaluation tool.
- The RCT is maintained by NCDEQ and is revised periodically.
- The risk evaluation procedures, equations, and default parameters used in the tool follow current USEPA risk assessment guidance. Key calculations are protected and cannot be altered.
- RCT utilizes USEPA contaminant and health effects data which is periodically updated.
- The RCT calculates the cumulative risk associated with all the contaminants detected.
- Confirmed contaminants are entered into the risk calculator tool even if they are found at levels below preliminary soil remedial goals (PSRGs).
- The RCT assumes contaminant concentrations are present throughout the entire exposure unit at the maximum value detected.
- A link to an article written in *Environmental News*, the newsletter of the Environment, Energy & Natural Resources Law Section of the North Carolina Bar Association that further summarizes the RCT can be found on the NCDEQ website: [https://files.nc.gov/ncdeq/Waste%20Management/DWM/SF/RiskBasedRemediation/eenrfebruary2018\\_final.pdf](https://files.nc.gov/ncdeq/Waste%20Management/DWM/SF/RiskBasedRemediation/eenrfebruary2018_final.pdf)

3. *What other measures are being taken to be conservative and protective in our assumptions?*

- Background levels of naturally occurring compounds, such as metals, have been measured in areas upstream and upgradient of the site. When running the RCT, these naturally occurring background levels have not been subtracted from the levels of these compounds confirmed to be present in the investigation areas.
- Polling data of trail users has not yet been input into the RCT to more accurately reflect actual user exposure duration and frequency. When this is done, this actual site usage data will replace the highly conservative NCDEQ assumption data, and will raise risk thresholds somewhat.

*4. Why is the use of PSRG values not applicable at this stage of the project?*

- As their name indicates, preliminary soil remedial goals are typically used as an initial human health-based screen to determine if contaminant levels exceed highly conservative values, and if not, whether a site can be closed.
- At this site, we are well past this preliminary evaluation phase. Hundreds of analytical tests have been performed at varying depths across the property. These data have been compiled and are being used in the RCT calculations. A human health risk assessment is also underway.
- As more work is performed to understand the characteristics of a contaminated site, and more actual site data is collected, some of the highly conservative initial assumptions can be modified to better reflect actual site conditions and risk.
- The use of PSRGs does not account for the possible presence of multiple contaminants. Site data collected to-date, shows that multiple contaminants are present at this site. The use of the RCT is more appropriate at this stage of the project because the tool accounts for multiple contaminants and the sum of their potential non-carcinogenic and carcinogenic effects.

*5. Please provide information on the risk/health parameters used by the RCT for arsenic.*

- The RCT incorporates a database of toxicity values and other chemical-specific parameters obtained directly from the USEPA regional screening level tables. Many of these defaults cannot be changed nor accessed by the user as they are “protected” and cannot be unlocked except by NCDEQ toxicologists.
- Therefore, attached to this email, is a copy of the most recent (November 2019) RSL data from USEPA that is used in the most recent (December 2019) RCT version. Arsenic is included in this table.

*6. What are the implications for using a residential scenario versus the current recreator/trespasser scenario?*

- Significant increased costs for no real increase in protection
- Would approximately double the amount of soil excavation and disposal
  - More excavator and truck emissions to transport soil away and import more backfill
  - More trucks on the highways hauling soil
  - Unnecessary use of valuable landfill space
  - More time to complete the work and more inconvenience for trail users
  - Damage to more trees and vegetation along the greenway trail
- Would establish an unsubstantiated precedent and expectation to the community for a level of remediation not supported by either environmental science or engineering methods, nor USEPA and NCDEQ rules, guidelines or methods.



**North Carolina Department of Environmental Quality  
Risk Calculator  
December 2019 Version**

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Regional Screening Level (RSI) Summary Table (TR=1E-06, HQ=1) November 2019

Regional Screening Level (RSI) Summary Table (TR=1E-06, HQ=1) November 2019

| Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDS; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; W = TEF applied; E = RPF applied; G = user's guide Section 5; M = mutagen; V = volatile; R = RBA applied; c = cancer; n = noncancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded. |                |   |                |                                 |                |  |                |         |         |                  |   |                     |            |                                 |                                   |   |   |                           |               |                                     |                             |         |   |
|--|----------------|---|----------------|---------------------------------|----------------|--|----------------|---------|---------|------------------|---|---------------------|------------|---------------------------------|-----------------------------------|---|---|---------------------------|---------------|-------------------------------------|-----------------------------|---------|---|
| Toxicity and Chemical-specific Information   |                |   |                |                                 |                |  |                |         |         | Contaminant      |   |                     |            | Screening Levels                |                                   |   |   |                           |               | Protection of Ground Water SSLs     |                             |         |   |
| SFO<br>(mg/kg-day) <sup>-1</sup>   | k <sub>e</sub> | IUR<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | k <sub>e</sub> | RFD <sub>o</sub><br>(mg/kg-day) | k <sub>e</sub> | RCI <sub>i</sub><br>(mg/m <sup>3</sup> ) | k <sub>v</sub> | mutagen | GIABS   | ABS <sub>d</sub> | C <sub>sat</sub><br>(mg/kg)                                 | Analyte             | CAS No.    | Resident Soil<br>(mg/kg)<br>key | Industrial Soil<br>(mg/kg)<br>key | Resident Air<br>(ug/m <sup>3</sup> )<br>key | Industrial Air<br>(ug/m <sup>3</sup> )<br>key | Tapwater<br>(ug/L)<br>key | MCL<br>(ug/L) | Risk-based<br>SSL<br>(mg/kg)<br>key | MCL-based<br>SSL<br>(mg/kg) |         |   |
|  |                |   |                | 1.0E-03                         | A              |  |                |         | 1       | 0.1              |   | Chlorpyrifos        | 2921-88-2  | 6.3E+01                         | n                                 | 8.2E+02                                     | n   | 8.4E+00                   | n             | 1.2E-01                             | n                           |         |   |
|  |                |   |                | 1.0E-02                         | H              |  |                |         | 1       | 0.1              |   | Chlorpyrifos Methyl | 5598-13-0  | 6.3E+02                         | n                                 | 8.2E+03                                     | n   | 1.2E+02                   | n             | 5.4E-01                             | n                           |         |   |
|  |                |   |                | 5.0E-02                         | O              |  |                |         | 1       | 0.1              |   | Chlorsulfuron       | 64902-72-3 | 3.2E+03                         | n                                 | 4.1E+04                                     | n   | 9.9E+02                   | n             | 8.3E-01                             | n                           |         |   |
|  |                |   |                | 1.0E-02                         | I              |  |                |         | 1       | 0.1              |   | Chlorthal-dimethyl  | 1861-32-1  | 6.3E+02                         | n                                 | 8.2E+03                                     | n   | 1.2E+02                   | n             | 1.5E-01                             | n                           |         |   |
|  |                |   |                | 8.0E-04                         | H              |  |                |         | 1       | 0.1              |   | Chlorthiophos       | 60238-56-4 | 5.1E+01                         | n                                 | 6.6E+02                                     | n   | 2.8E+00                   | n             | 7.3E-02                             | n                           |         |   |
|  |                |   |                | 1.5E+00                         | I              |  |                | 0.013   |         |                  | Chromium(III), Insoluble Salts                              | 16065-83-1          | 1.2E+05    | nm                              | 1.8E+06                           | nm  | 2.2E+04                                       | n                         | 4.0E+07       | n                                   |                             |         |   |
| 5.0E-01  | C              | 8.4E-02                                   | G              | 3.0E-03                         | I              | 1.0E-04                                  | I              | M       | 0.025   |                  |   | Chromium(VI)        | 18540-29-9 | 3.0E-01                         | c                                 | 6.3E+00                                     | c   | 1.2E-05                   | c             | 1.5E-04                             | c                           | 6.7E-04 | c |
|  |                |   |                |                                 |                |  |                |         | 0.013   |                  |   | Chromium, Total     | 7440-47-3  |                                 |                                   |   |   |                           |               |                                     | 1.0E+02                     | 1.8E+05 |   |
|  |                |   |                | 1.3E-02                         | I              |  |                |         | 1       | 0.1              |   | Clofentezine        | 7415-24-5  | 8.2E+02                         | n                                 | 1.1E+04                                     | n   |                           |               | 2.3E+02                             | n                           | 1.4E+01 | n |
| 9.0E-03  | P              | 3.0E-04                                   | P              | 6.0E-06                         | P              | V  | M              | 1       |         |                  | Cobalt  | 7440-48-4           | 2.3E+01    | n                               | 3.5E+02                           | n   | 3.1E-04                                       | c*                        | 1.4E-03       | c*                                  | 6.0E+00                     | n       |   |
| 6.2E-04  | I              |   |                |                                 |                |  |                |         |         |                  | Coke Oven Emissions   | 8007-45-2           |            |                                 |                                   |   | 1.6E-03                                       | c                         | 2.0E-02       | c                                   |                             |         |   |
|  |                |   |                | 4.0E-02                         | H              |  |                |         | 1       |                  | Copper  | 7440-50-8           | 3.1E+03    | n                               | 4.7E+04                           | n   |   |                           | 8.0E+02       | n                                   | 1.3E+03                     | 2.8E+01 | n |
| 5.0E-02  | I              | 6.0E-01                                   | C              |                                 | 1              | 0.1                                      |                |         |         |                  | Cresol, m-  | 108-39-4            | 3.2E+03    | n                               | 4.1E+04                           | n   | 6.3E+02                                       | n                         | 2.6E+03       | n                                   | 7.4E-01                     | n       |   |
| 5.0E-02  | I              | 6.0E-01                                   | C              |                                 | 1              | 0.1                                      |                |         |         |                  | Cresol, o-  | 95-48-7             | 3.2E+03    | n                               | 4.1E+04                           | n   | 6.3E+02                                       | n                         | 2.6E+03       | n                                   | 7.5E-01                     | n       |   |
| 1.0E-01  | A              | 6.0E-01                                   | C              |                                 | 1              | 0.1                                      |                |         |         |                  | Cresol, p-  | 106-44-5            | 6.3E+03    | n                               | 8.2E+04                           | n   | 6.3E+02                                       | n                         | 2.6E+03       | n                                   | 1.5E+00                     | n       |   |
| 1.0E-01  | A              |   |                |                                 | 1              | 0.1                                      |                |         |         |                  | Cresol, p-chloro-m-   | 59-50-7             | 6.3E+03    | n                               | 8.2E+04                           | n   |   |                           | 1.4E+03       | n                                   | 1.7E+00                     | n       |   |
| 1.0E-01  | A              | 6.0E-01                                   | C              |                                 | 1              | 0.1                                      |                |         |         |                  | Cresols   | 1319-77-3           | 6.3E+03    | n                               | 8.2E+04                           | n   | 6.3E+02                                       | n                         | 2.6E+03       | n                                   | 1.3E+00                     | n       |   |
| 1.9E+00  | H              |   |                | 1.0E-03                         | P              | V  | 1              |         | 1.7E+04 |                  | Crotonaldehyde, trans-                                      | 123-73-9            | 3.7E-01    | c                               | 1.7E+00                           | c   |   |                           | 4.0E-02       | c                                   | 8.2E-06                     | c       |   |
| 2.2E-01  | C              | 6.3E-05                                   | C              | 1.0E-01                         | I              | V  |                |         | 2.7E+02 |                  | Cumene  | 98-82-8             | 1.9E+03    | ns                              | 9.9E+03                           | ns  | 4.2E+02                                       | n                         | 1.8E+03       | n                                   | 4.5E+02                     | n       |   |
| 8.4E-01  | H              |   |                | 2.0E-03                         | H              |  |                |         | 1       | 0.1              | Cupferron   | 135-20-6            | 2.5E+00    | c                               | 1.0E+01                           | c   | 4.5E-02                                       | c                         | 1.9E-01       | c                                   | 6.1E-04                     | c       |   |
|  |                |   |                |                                 |                |  |                |         |         |                  | Cyanazine   | 21725-46-2          | 6.5E-01    | c                               | 2.7E+00                           | c   |   |                           |               |                                     | 4.1E-05                     | c       |   |
|  |                |   |                |                                 |                |  |                |         |         |                  | Cyanides  |                     |            |                                 |                                   |   |   |                           |               |                                     |                             |         |   |
|  |                |   |                | 1.0E-03                         | I              |  |                |         | 1       |                  | -Calcium Cyanide  | 592-01-8            | 7.8E+01    | n                               | 1.2E+03                           | n   |   |                           | 2.0E+01       | n                                   |                             |         |   |
|  |                |   |                | 5.0E-03                         | I              |  |                |         | 1       |                  | -Copper Cyanide   | 544-92-3            | 3.9E+02    | n                               | 5.8E+03                           | n   |   |                           | 1.0E+02       | n                                   |                             |         |   |
|  |                |   |                | 6.0E-04                         | I              | 8.0E-04                                  | G              | V       | 1       | 9.5E+05          | -Cyanide (CN-)  | 57-12-5             | 2.3E+01    | n                               | 1.5E+02                           | n   | 8.3E-01                                       | n                         | 3.5E+00       | n                                   | 1.2E+02                     | 1.5E-02 | n |
|  |                |   |                | 1.0E-03                         | I              | V  |                |         | 1       |                  | -Cyanogen   | 460-19-5            | 7.8E+01    | n                               | 1.2E+03                           | n   |   |                           | 2.0E+01       | n                                   |                             |         |   |
|  |                |   |                | 9.0E-02                         | I              | V  |                |         | 1       |                  | -Cyanogen Bromide   | 506-68-3            | 7.0E+03    | n                               | 1.1E+05                           | nm  |   |                           | 1.8E+03       | n                                   |                             |         |   |
|  |                |   |                | 5.0E-02                         | I              | V  |                |         | 1       |                  | -Cyanogen Chloride  | 506-77-4            | 3.9E+03    | n                               | 5.8E+04                           | n   |   |                           | 1.0E+03       | n                                   |                             |         |   |
|  |                |   |                | 6.0E-04                         | I              | 8.0E-04                                  | I              | V       | 1       | 1.0E+07          | -Hydrogen Cyanide   | 74-90-8             | 2.3E+01    | n                               | 1.5E+02                           | n   | 8.3E-01                                       | n                         | 3.5E+00       | n                                   | 1.5E+01                     | 1.5E-02 | n |
|  |                |   |                | 2.0E-03                         | I              |  |                |         | 1       |                  | -Potassium Cyanide  | 151-50-8            | 1.6E+02    | n                               | 2.3E+03                           | n   |   |                           | 4.0E+01       | n                                   |                             |         |   |
|  |                |   |                | 5.0E-03                         | I              |  | 0.04           |         |         |                  | -Potassium Silver Cyanide                                   | 506-61-6            | 3.9E+02    | n                               | 5.8E+03                           | n   |   |                           | 8.2E+01       | n                                   |                             |         |   |
|  |                |   |                | 1.0E-01                         | I              | 0.04                                     |                |         |         |                  | -Silver Cyanide   | 506-64-9            | 7.8E+03    | n                               | 1.2E+05                           | nm  |   |                           | 1.8E+03       | n                                   |                             |         |   |
|  |                |   |                | 1.0E-03                         | I              |  |                |         | 1       |                  | -Sodium Cyanide   | 143-33-9            | 7.8E+01    | n                               | 1.2E+03                           | n   |   |                           | 2.0E+01       | n                                   | 2.0E+02                     |         |   |
|  |                |   |                | 2.0E-04                         | P              |  |                |         | 1       |                  | -Thiocyanates   | E1790664            | 1.6E+01    | n                               | 2.3E+02                           | n   |   |                           | 4.0E+00       | n                                   |                             |         |   |
|  |                |   |                | 2.0E-04                         | X              | V  |                |         | 1       |                  | -Thiocyanic Acid  | 463-56-9            | 1.6E+01    | n                               | 2.3E+02                           | n   |   |                           | 4.0E+00       | n                                   |                             |         |   |
|  |                |   |                | 5.0E-02                         | I              |  |                |         | 1       |                  | -Zinc Cyanide   | 557-21-1            | 3.9E+03    | n                               | 5.8E+04                           | n   |   |                           | 1.0E+03       | n                                   |                             |         |   |
| 2.0E-02  | X              |   |                | 6.0E+00                         | I              | V  | 1              | 1       | 1.2E+02 |                  | Cyclohexane   | 110-82-7            | 6.5E+03    | ns                              | 2.7E+04                           | ns  | 6.3E+03                                       | n                         | 2.6E+04       | n                                   | 1.3E+04                     | n       |   |
|  |                |   |                | 5.0E+00                         | I              | 7.0E-01                                  | P              | V       | 1       | 5.1E+03          | Cyclohexane   | 87-84-3             | 2.7E+01    | c*                              | 1.1E+02                           | c   |   |                           | 2.8E+00       | c                                   | 1.6E-02                     | c       |   |
|  |                |   |                | 5.0E-03                         | P              | 1.0E+00                                  | X              | V       | 1       | 2.8E+02          | Cyclohexene   | 108-94-1            | 2.8E+04    | ns                              | 1.3E+05                           | s   | 7.3E+02                                       | n                         | 3.1E+03       | n                                   | 3.4E-01                     | n       |   |
|  |                |   |                | 5.0E-03                         | P              | 1.0E+00                                  | X              | V       | 1       | 2.9E+05          | Cyclohexylamine   | 110-83-8            | 3.1E+02    | ns                              | 3.1E+03                           | ns  | 1.0E+03                                       | n                         | 4.4E+03       | n                                   | 7.0E+01                     | n       |   |
|  |                |   |                | 2.5E-02                         | I              |  |                |         | 1       | 0.1              | Cyfluthrin  | 68359-37-5          | 1.6E+03    | n                               | 2.1E+04                           | n   |   |                           | 1.2E+02       | n                                   | 3.1E-01                     | n       |   |
|  |                |   |                | 1.0E-03                         | O              |  |                |         | 1       | 0.1              | Cyhalothrin   | 68085-85-8          | 6.3E+01    | n                               | 8.2E+02                           | n   |   |                           | 2.0E+01       | n                                   | 1.4E+01                     | n       |   |
|  |                |   |                | 5.0E-01                         | O              |  |                |         | 1       | 0.1              | Cyromazine  | 66215-27-8          | 3.2E+04    | n                               | 4.1E+05                           | nm  |   |                           | 9.9E+03       | n                                   | 2.5E+00                     | n       |   |
| 2.4E-01  | I              | 6.9E-05                                   | C              | 3.0E-05                         | X              |  | 1              | 0.1     |         |                  | DDDD, p,p'-DDD  | 72-54-8             | 1.9E+00    | n                               | 9.6E+00                           | c**   | 4.1E-02                                       | c                         | 1.8E-01       | c                                   | 7.5E-03                     | c**     |   |
| 3.4E-01  | I              | 9.7E-05                                   | C              | 3.0E-04                         | X              | V  | 1              | 0.03    |         |                  | DDT   | 72-55-9             | 2.0E+00    | c*                              | 9.3E+00                           | c*  | 2.9E-02                                       | c                         | 1.3E-01       | c                                   | 1.1E-02                     | c       |   |
| 3.4E-01  | I              | 9.7E-05                                   | I              | 5.0E-04                         | I              |  | 1              | 0.1     |         |                  | Dalapon   | 50-29-3             | 1.9E+00    | c*                              | 8.5E+00                           | c*  | 2.9E-02                                       | c                         | 1.3E-01       | c                                   | 7.7E-02                     | c*      |   |
|  |                |   |                | 3.0E-02                         | I              |  |                |         | 1       | 0.1              |   | 75-99-0             | 1.9E+03    | n                               | 2.5E+04                           | n   |   |                           | 6.0E+02       | n                                   | 2.0E+02                     | 1.2E-01 | n |
| 1.8E-02  | C              | 5.1E-06                                   | C              | 1.5E-01                         | I              |  |                |         | 1       | 0.1              | Daminoimidophenyl ether, 2,2',3,3',4,4',5,5',6,6'-(BDE-209) | 1596-84-5           | 3.0E+01    | c                               | 1.3E+02                           | c   | 5.5E-01                                       | c                         | 2.4E+00       | c                                   | 4.3E+00                     | c       |   |
| 7.0E-04  | I              |   |                | 7.0E-03                         | I              |  |                |         | 1       | 0.1              | Demeton   | 8065-48-3           | 4.5E+02    | n                               | 3.3E+03                           | c**   | 4.1E-02                                       | c                         | 1.8E-01       | c                                   | 4.2E-01                     | n       |   |
| 1.2E-03  | I              |   |                | 6.0E-01                         | I              |  |                |         | 1       | 0.1              | Di(2-ethylhexyl)adipate                                     | 103-23-1            | 4.5E+02    | c*                              | 1.9E+03                           | c   |   |                           | 6.5E+01       | c                                   | 4.0E+02                     | 4.7E+00 | c |
| 6.1E-02  | H              |   |                | 7.0E-04                         | A              |  |                |         | 1       | 0.1              | Di(2-ethylhexyl)adipate                                     | 2303-16-4           | 8.9E+00    | c                               | 3.8E+01                           | c   |   |                           | 5.4E-01       | c                                   | 8.0E-04                     | c       |   |
|  |                |   |                | 7.0E-04                         | A              |  |                |         | 1       | 0.1              | Diazinon  | 333-41-5            | 4.4E+01    | n                               | 5.7E+02                           | n   |   |                           | 1.0E+01       | n                                   | 6.5E-02                     | n       |   |
|  |                |   |                | 1.0E-02                         | X              | V  | 1              | 1       | 1.6E+02 |                  | Benzothiophene  | 132-65-0            | 7.8E+02    | n                               | 1.2E+04                           | n   |   |                           | 6.5E+01       | n                                   | 1.2E+00                     | n       |   |
|  |                |   |                | 8.0E-01                         | P              | 2.0E-04                                  | I              | V       | 1       | 9.8E+02          | Bromoacetic acid  | 96-12-8             | 5.3E-03    | c                               | 6.4E-02                           | c   | 1.7E-04                                       | c                         | 3.3E-04       | c                                   | 2.0E-01                     | 1.4E-07 | c |
|  |                |   |                | 4.0E-04                         | X              | V  | 1              | 1       | 1.6E+02 |                  | Bromobenzene, 1,3-  | 108-36-1            | 3.1E+01    | n                               | 4.7E+02                           | ns  |   |                           | 5.3E+00       | n                                   | 5.1E-03                     | n       |   |
|  |                |   |                | 1.0E-02                         | I              | V  | 1              | 1       | 1.6E+02 |                  | Bromobenzene, 1,4-  | 108-37-6            | 7.8E+02    | n                               | 1.2E+04                           | n   |   |                           | 1.3E+02       | n                                   | 1.2E-01                     | n       |   |
|  |                |   |                | 2.0E-02                         | I              | V  | 1              | 1       | 8.0E+02 |                  | Bromochloromethane  | 124-48-1            | 8.3E+00    | c                               | 3.9E+01                           | c   |   |                           | 8.7E-01       | c                                   | 8.0E+01(G)                  | 2.3E-04 | c |
| 2.0E+00  | I              | 6.0E-04                                   | I              | 9.0E-03                         | I              | V  | 1              | 1       | 1.3E+03 |                  | Bromooethane, 1,2-  | 106-93-4            | 3.6E-02    | c                               | 1                                 |   |   |                           |               |                                     |                             |         |   |

| Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; W = TEF applied; E = RPF applied; G = user's guide Section 5; M = mutagen; V = volatile; R = RBA applied ; c = cancer; n = noncancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded. |                |   |                |                                 |                |   |                |                |         |       |                  |                                   |            |                                |                                 | Screening Levels                  |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|---|----------------|---|----------------|---------------------------------|----------------|---|----------------|----------------|---------|-------|------------------|-----------------------------------|------------|--------------------------------|---------------------------------|-----------------------------------|---|---|---------------------------|-------------------------------|-------------------------------------|-------------------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Toxicity and Chemical-specific Information  |                |   |                |                                 |                |   |                |                |         |       |                  |                                   |            |                                |                                 | Screening Levels                  |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| SFO<br>(mg/kg-day) <sup>-1</sup>  | k <sub>e</sub> | IUR<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | k <sub>e</sub> | RFD <sub>o</sub><br>(mg/kg-day) | k <sub>e</sub> | RC <sub>i</sub><br>(mg/m <sup>3</sup> ) <sup>-1</sup> | k <sub>v</sub> | e <sub>o</sub> | mutagen | GIABS | ABS <sub>d</sub> | C <sub>ss</sub><br>(mg/kg)        | Analyte    | CAS No.                        | Resident Soil<br>(mg/kg)<br>key | Industrial Soil<br>(mg/kg)<br>key | Resident Air<br>(ug/m <sup>3</sup> )<br>key | Industrial Air<br>(ug/m <sup>3</sup> )<br>key | Tapwater<br>(ug/L)<br>key | MCL<br>(ug/L)                 | Risk-based<br>SSL<br>(mg/kg)<br>key | MCL-based<br>SSL<br>(mg/kg)   |                    |                               |                               |                               |                               |
| 9.1E-02   | I              | 2.6E-05                                   | I              | 6.0E-03                         | X              | 7.0E-03   | P              | V              |         | 1     | 3.0E+03          | Dichloroethane, 1,2-              | 107-06-2   | 4.6E-01<br>2.3E+02<br>1.6E+02  | c*<br>n<br>n                    | 2.0E+00<br>1.0E+03<br>2.3E+03     | c*<br>n<br>n                                | 1.1E-01<br>2.1E+02<br>8.8E+02                 | c*<br>n<br>n              | 4.7E-01<br>2.8E+02<br>3.6E+01 | c*<br>n<br>n                        | 1.7E-01<br>7.0E+00<br>7.0E+01 | c*<br>n<br>n       | 5.0E+00<br>1.0E+02<br>1.1E+02 | 4.8E-05<br>1.0E-01<br>2.1E-02 | c*<br>n<br>n                  | 1.4E-03<br>2.5E-03<br>2.1E-02 |
|   |                |   |                | 5.0E-02                         | I              | 2.0E-01   | I              | V              |         | 1     | 1.2E+03          | Dichloroethylene, 1,1-            | 75-35-4    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 2.0E-03                         | I              | V   |                |                |         | 1     | 2.4E+03          | Dichloroethylene, 1,2-cis-        | 156-59-2   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 2.0E-02                         | I              | V   |                |                |         | 1     | 1.9E+03          | Dichloroethylene, 1,2-trans-      | 156-60-5   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 3.0E-03                         | I              |   |                |                |         | 1     | 0.1              | Dichlorophenol, 2,4-              | 120-83-2   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 1.0E-02                         | I              |   |                |                |         | 1     | 0.05             | Dichlorophenoxy Acetic Acid, 2,4- | 94-75-7    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 3.7E-02   | P              | 3.7E-06                                   | P              | 4.0E-02                         | P              | 4.0E-03   | I              | V              |         | 1     | 1.4E+03          | Dichloropropane, 1,2-             | 78-87-5    | 2.5E+00<br>1.6E+03<br>1.6E+03  | c**<br>ns<br>ns                 | 1.1E+01<br>2.3E+04<br>2.3E+04     | c**<br>ns<br>ns                             | 7.6E-01<br>8.5E-01                            | c**<br>c*<br>c*           | 3.3E+00<br>3.7E+02<br>5.9E+01 | c**<br>c*<br>c*                     | 4.7E-01<br>5.0E+00<br>5.0E+01 | c**<br>n<br>n      | 2.8E-04<br>1.0E-01<br>1.3E-01 | c**<br>n<br>n                 | 1.7E-03<br>2.3E-02<br>1.8E-02 |                               |
|   |                |   |                | 2.0E-02                         | P              | V   |                |                |         | 1     | 1.5E+03          | Dichloropropane, 1,3-             | 142-28-9   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 3.0E-03                         | I              |   |                |                |         | 1     | 0.1              | Dichlorophenol, 2,3-              | 616-23-9   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 1.0E-01   | I              | 4.0E-06                                   | I              | 3.0E-02                         | I              | 2.0E-02   | I              | V              |         | 1     | 1.6E+03          | Dichloropropene, 1,3-             | 542-75-6   | 1.8E+00<br>1.9E+00<br>1.9E+00  | c*<br>c*<br>c*                  | 8.2E+00<br>7.9E+00<br>2.5E+01     | c*<br>c*<br>c*                              | 7.0E-01<br>3.4E-02<br>6.0E+01                 | c*<br>c*<br>c*            | 3.1E+00<br>1.5E-01<br>4.1E-02 | c*<br>c*<br>c*                      | 4.7E-01<br>8.5E-01<br>6.0E+01 | c*<br>c*<br>c*     | 1.7E-04<br>8.1E-05<br>1.4E-04 | c*<br>c*<br>n                 |                               |                               |
| 2.9E-01   | I              | 8.3E-05                                   | C              | 5.0E-04                         | I              | 5.0E-04   | I              |                |         | 1     | 0.1              | Dichlorvos                        | 62-73-7    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 3.0E-05                         | O              |   |                |                |         | 1     | 0.1              | Dicroftosin                       | 141-66-2   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 1.6E+01   | I              | 4.6E-03                                   | I              | 5.0E-05                         | I              | V   |                |                |         | 1     | 0.1              | Dieldrin                          | 77-73-6    | 1.3E+00<br>3.4E-02             | n<br>c                          | 5.4E+00<br>1.4E-01                | n<br>c                                      | 3.1E-01<br>6.1E-04                            | n<br>c                    | 1.3E+00<br>2.7E-03            | n<br>c                              | 6.3E-01<br>1.8E-03            | n<br>c             | 2.2E-03<br>7.1E-05            | c<br>c                        |                               |                               |
|   |                |   |                | 8.0E-02                         | P              | 3.0E-04   | X              | V              |         | 1     | 2.6E+02          | Dicyclopentadiene                 | 60-57-1    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 3.0E-02                         | P              | 1.0E-04   | P              |                |         | 1     | 0.1              | Diesel Engine Exhaust             | E17136615  |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 3.0E-02                         | P              | 1.0E-04   | P              |                |         | 1     | 0.1              | Diethanolamine                    | 111-42-2   | 1.3E+02<br>1.9E+03<br>3.8E+03  | n<br>c<br>c                     | 1.6E+03<br>2.4E+04<br>4.8E+04     | n<br>c<br>c                                 | 2.1E+01<br>1.0E-01<br>3.1E-01                 | n<br>n<br>n               | 8.8E-01<br>4.4E-01<br>1.2E+03 | n<br>n<br>n                         | 4.0E+01<br>6.0E+02<br>1.2E+03 | n<br>n<br>n        | 8.1E-03<br>1.3E-01<br>2.4E-01 | n<br>n<br>n                   |                               |                               |
|   |                |   |                | 3.0E-02                         | P              | 1.0E-04   | P              |                |         | 1     | 0.1              | Diethylene Glycol Monobutyl Ether | 56-33-4    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 6.0E-02                         | P              | 3.0E-04   | P              |                |         | 1     | 0.1              | Diethylene Glycol Monoethyl Ether | 111-90-0   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 3.5E+02   | C              | 1.0E-01                                   | C              | 1.0E-03                         | P              | V   |                |                |         | 1     | 1.1E+05          | Diethylformamide                  | 617-84-5   | 7.8E+01<br>1.6E-03<br>5.2E+03  | n<br>c<br>n                     | 1.2E+03<br>6.6E-03<br>6.8E+04     | n<br>c<br>n                                 | 2.0E+01<br>4.2E+04<br>1.0E+05                 | n<br>n<br>n               | 8.0E-01<br>2.9E+02<br>3.1E+00 | n<br>n<br>n                         | 2.0E+01<br>5.1E-05<br>1.7E+03 | n<br>c<br>n        | 4.1E-03<br>2.8E-05<br>2.6E+02 | n<br>c<br>n                   |                               |                               |
|   |                |   |                | 8.3E-02                         | O              |   |                |                |         | 1     | 0.1              | Diethylstilbestrol                | 56-53-1    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                |                                 |                |   |                |                |         | 1     | 0.1              | Difenozquat                       | 43222-48-6 |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 2.0E-02                         | I              | V   |                |                |         | 1     | 0.1              | Diffubenzuron                     | 35367-38-5 | 1.3E+03<br>4.8E+04<br>2.4E+04  | n<br>n<br>ns                    | 1.6E+04<br>2.0E+05<br>3.1E+04     | n<br>n<br>n                                 | 2.9E+02<br>1.8E+05<br>6.3E+03                 | n<br>n<br>ns              | 2.0E+01<br>4.2E+04<br>1.6E+03 | n<br>n<br>n                         | 3.3E-01<br>2.8E+01<br>1.4E+02 | n<br>n<br>n        |                               |                               |                               |                               |
|   |                |   |                | 4.0E-02                         | I              | V   |                |                |         | 1     | 1.4E+03          | Diffluoroethane, 1,1-             | 75-37-6    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 3.0E+01                         | P              | 2.0E-03   | X              | V              |         | 1     | 6.9E+02          | Diffuoropropane, 2,2-             | 420-45-1   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 4.4E-02   | C              | 1.3E-05                                   | C              | V                               |                |   |                |                |         | 1     | 2.3E+03          | Dihydrosafrole                    | 94-58-6    | 9.9E+00<br>2.2E+03<br>108-20-3 | c<br>n<br>ns                    | 4.5E+01<br>9.4E+03<br>9.3E+04     | c<br>ns<br>ns                               | 2.2E-01<br>4.2E+04<br>3.1E+03                 | c<br>n<br>n               | 9.4E-01<br>3.0E-01<br>1.5E+03 | c<br>c<br>n                         | 3.0E-01<br>1.5E+03<br>1.6E+03 | c<br>n<br>n        | 1.9E-04<br>3.7E-01<br>4.5E-01 | c<br>n<br>n                   |                               |                               |
|   |                |   |                | 8.0E-02                         | I              | 7.0E-01   | P              | V              |         | 1     | 5.3E+02          | Disopropyl Ether                  | 1445-75-6  |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                |                                 |                |   |                |                |         | 1     | 1.0E+03          | Disopropyl Methylphosphonate      | 55290-64-7 | 1.4E+03<br>2.2E+03<br>108-20-3 | n<br>c<br>ns                    | 1.8E+04<br>4.0E+04<br>4.0E+04     | n<br>c<br>ns                                | 4.4E+02<br>4.4E+01<br>4.7E-02                 | n<br>n<br>c               | 9.4E+01<br>5.0E-03<br>1.3E-01 | c<br>c<br>c                         | 9.6E+02<br>9.9E+03<br>5.8E+05 | n<br>n<br>c        |                               |                               |                               |                               |
|   |                |   |                | 2.2E-02                         | O              |   |                |                |         | 1     | 0.1              | Dimethipin                        | 55290-64-7 | 1.4E+03<br>1.4E+02<br>3.4E-01  | n<br>c<br>c                     | 1.8E+04<br>1.8E+03<br>1.4E+00     | n<br>c<br>c                                 | 4.4E+02<br>4.4E+01<br>4.7E-02                 | n<br>n<br>c               | 9.6E+02<br>9.9E+03<br>5.8E+05 | n<br>n<br>c                         |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 2.2E-03                         | O              |   |                |                |         | 1     | 0.1              | Dimethoate                        | 60-51-5    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                |                                 |                |   |                |                |         | 1     | 0.1              | Dimethoxybenzidine, 3,3'          | 119-90-4   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 1.6E+00   | P              |   |                | 6.0E-02                         | P              |   |                |                |         | 1     | 0.1              | Dimethyl methylphosphonate        | 7576-9-6   | 3.2E+02<br>4.2E+03<br>100-11-7 | c*<br>c<br>c                    | 1.4E+03<br>5.0E-01<br>4.0E+00     | c<br>c<br>c                                 | 2.2E-01<br>2.2E-03<br>4.0E+00                 | c<br>ns<br>c              | 9.4E-01<br>5.0E-03<br>1.3E-01 | c<br>c<br>c                         | 4.6E+01<br>5.0E-03<br>1.3E-01 | c<br>c<br>c        | 9.6E-03<br>2.1E-05<br>1.2E-04 | c*<br>c<br>c                  |                               |                               |
| 1.7E-03   | P              | 6.0E-02                                   | P              |                                 |                |   |                |                |         | 1     | 0.1              | Dimethylamino azobenzene [p-]     | 60-11-7    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 4.6E+00   | C              | 1.3E-03                                   | C              |                                 |                |   |                |                |         | 1     | 0.1              | Dimethylaminole HCl, 2,4-         | 21436-96-4 |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 5.8E-01   | H              |   |                |                                 |                |   |                |                |         | 1     | 0.1              | Dimethylbenzidine, 3,3'           | 95-68-1    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 2.0E-01   | P              |   |                | 2.0E-03                         | X              |   |                |                |         | 1     | 0.1              | Dimethylbenzine, 2,4-             | 121-69-7   | 2.7E+00<br>2.6E+01             | c*<br>c*                        | 1.1E+01<br>1.2E+02                | n<br>c                                      | 3.7E-01<br>2.5E+00                            | c<br>c                    | 1.3E-01<br>6.5E-03            | c<br>c                              | 2.1E-04<br>9.0E-04            | c<br>c             |                               |                               |                               |                               |
| 2.7E-02   | P              |   |                | 2.0E-03                         | I              | V   |                |                |         | 1     | 0.1              | Dimethylbenzidine, 3,3'           | 119-93-7   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 1.1E+01   | P              |   |                |                                 |                |   |                |                |         | 1     | 0.1              | Dimethylformamide                 | 68-12-2    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
| 1.0E-04   | X              |   |                | 1.0E-04                         | X              | V   |                |                |         | 1     | 1.7E-05          | Dimethylhydrazine, 1,1-           | 57-14-7    | 2.6E+03<br>5.7E-02             | n<br>c                          | 1.5E+04<br>2.4E-01                | n<br>n                                      | 3.1E+02<br>8.8E-03                            | n<br>n                    | 6.1E+01<br>4.2E-03            | n<br>n                              | 9.3E-07<br>1.3E-02            | n<br>n             |                               |                               |                               |                               |
| 5.5E+02   | C              | 1.6E-01                                   | C              |                                 |                |   |                |                |         | 1     | 1.9E+05          | Dimethylhydrazine, 1,2-           | 540-73-8   | 8.8E-04                        | c                               | 4.1E-03                           | n   | 1.8E-05                                       | c                         | 7.7E-05                       | c                                   | 2.6E-05                       | c                  |                               |                               |                               |                               |
|   |                |   |                | 2.0E-02                         | I              | V   |                |                |         | 1     | 0.1              | Dimethylphenol, 2,4-              | 105-67-9   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 6.0E-04                         | I              | V   |                |                |         | 1     | 0.1              | Dimethylphenol, 2,6-              | 576-26-1   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 1.0E-04                         | P              |   |                |                |         | 1     | 0.1              | Dimnitrobenzene, 1,2-             | 99-65-0    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 1.0E-04                         | P              |   |                |                |         | 1     | 0.1              | Dimnitrobenzene, 1,4-             | 100-25-4   |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                | 2.0E-03                         | I              | V   |                |                |         | 1     | 0.1              | Dimnitrophenol, 2,4-              | 51-28-5    |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |
|   |                |   |                |                                 |                |   |                |                |         | 1     | 0.1              | Dimnitrophenol, 2,6-              | 121-14-2   | 1.7E+00<br>7.4E+00             | c*                              | 3.2E-02<br>4.2E-01                | c   | 1.4E-01<br>c                                  | 2.4E-01                   | c                             | 3.9E+01<br>3.0E-02                  | c<br>n                        | 4.4E-02<br>3.2E-04 | c<br>c                        |                               |                               |                               |
|   |                |   |                | 3.0E-03                         | I              | V   |                |                |         | 1     | 0.102            | Dimnitrotoluene Mixture, 2,4,6-   | E16152120  | 8.0E-01<br>3.4E+00             | c                               | 4.0E+00                           | n   | 1.1E-01                                       | c                         | 2.4E-01                       | c                                   | 1.5E-04<br>3.2E-04            | c<br>c             |                               |                               |                               |                               |
| 1.5E+00   | P              |   |                | 3.0E-04                         | X              |   |                |                |         | 1     | 0.099            | Dimnitrotoluene, 2,4-             | 606-20-2   | 3.6E-01                        | c                               | 1.5E+00                           | n   | 4.9E-02                                       | c                         | 4.9E-02                       | c                                   | 6.7E-05                       | c                  |                               |                               |                               |                               |
|   |                |   |                | 2.0E-0                          |                |   |                |                |         |       |                  |                                   |            |                                |                                 |                                   |   |   |                           |                               |                                     |                               |                    |                               |                               |                               |                               |

| Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDS; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; W = TEF applied; E = RPF applied; G = user's guide Section 5; M = mutagen; V = volatile; R = RBA applied; c = cancer; n = noncancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded. |                |  |                |                              |                |                                      |                |         |         |                     |                                 |  |            |                   |                     | Screening Levels |                    |              |            |                            |                       |         |         |         |
|--|----------------|--|----------------|------------------------------|----------------|--------------------------------------|----------------|---------|---------|---------------------|---------------------------------|--|------------|-------------------|---------------------|------------------|--------------------|--------------|------------|----------------------------|-----------------------|---------|---------|---------|
| Toxicity and Chemical-specific Information   |                |  |                |                              |                |                                      |                |         |         |                     |                                 |  |            |                   |                     | Screening Levels |                    |              |            |                            |                       |         |         |         |
| SFO (mg/kg-day) <sup>-1</sup>  | k <sub>e</sub> | IUR (ug/m <sup>3</sup> ) <sup>-1</sup> | k <sub>e</sub> | RFD <sub>y</sub> (mg/kg-day) | k <sub>e</sub> | RC <sub>i</sub> (mg/m <sup>3</sup> ) | k <sub>v</sub> | mutagen | GIABS   | ABS <sub>d</sub>    | C <sub>ss</sub> (mg/kg)         | Analyte  | CAS No.    | Resident Soil key | Industrial Soil key | Resident Air key | Industrial Air key | Tapwater key | MCL (ug/L) | Risk-based SSL (mg/kg) key | MCL-based SSL (mg/kg) |         |         |         |
|  |                |  |                | 6.0E-03                      | P              | 1                                    | 0.1            |         |         |                     |                                 | Endosulfan Sulfate                             | 1031-07-8  | 3.8E+02           | n                   | 4.9E+03          | n                  |              | 1.1E+02    | n                          | 2.1E+00               | n       |         |         |
|  |                |  |                | 2.0E-02                      | I              | 1                                    | 0.1            |         |         |                     |                                 | Endothall                                      | 145-73-3   | 1.3E+03           | n                   | 1.6E+04          | n                  |              | 3.8E+02    | n                          | 9.1E-02               | n       |         |         |
|  |                |  |                | 3.0E-04                      | I              | 1                                    | 0.1            |         |         |                     |                                 | Endrin   | 72-20-8    | 1.9E+01           | n                   | 2.5E+02          | n                  |              | 2.3E+00    | n                          | 2.4E-02               | n       |         |         |
| 9.9E-03  | I              | 1.2E-06                                | I              | 6.0E-03                      | P              | 1                                    | V              | 1       | 1.1E+04 |                     |                                 | Epichlorohydrin                                | 106-89-8   | 1.9E+01           | n                   | 8.2E+01          | n                  | 1.0E+00      | n          | 2.0E+00                    | n                     | 4.5E-04 | n       |         |
|  |                |  |                | 2.0E-02                      | I              | 1                                    | V              | 1       | 1.5E+04 |                     |                                 | Epoxybutane, 1,2-Ethanol, 2-(2-methoxyethoxy)- | 106-88-7   | 1.6E+02           | n                   | 6.7E+02          | n                  | 2.1E+01      | n          | 8.8E+01                    | n                     | 9.2E-03 | n       |         |
|  |                |  |                | 4.0E-02                      | P              | 1                                    |                | 1       | 0.1     |                     |                                 | Ethephon                                       | 16672-87-0 | 3.2E+02           | n                   | 4.1E+03          |                    |              |            | 1.0E+02                    | n                     | 2.1E-02 | n       |         |
|  |                |  |                | 5.0E-03                      | I              | 1                                    | 0.1            |         |         |                     |                                 | Ethion   | 563-12-2   | 3.2E+01           | n                   | 4.1E+02          | n                  |              |            | 4.3E+00                    | n                     | 8.5E-03 | n       |         |
|  |                |  |                | 5.0E-04                      | I              | 1                                    | 0.1            |         |         |                     |                                 | Ethylo Acrylate                                | 111-15-9   | 2.6E+03           | n                   | 1.4E+04          | n                  |              |            | 1.2E+02                    | n                     | 2.5E-02 | n       |         |
|  |                |  |                | 1.0E-01                      | P              | 6.0E-02                              | P              | V       | 1       | 2.4E+04             |                                 | Ethyoxyethanol Acetate, 2-                     | 110-80-5   | 5.2E+03           | n                   | 4.7E+04          | n                  | 2.1E+02      | n          | 8.8E+02                    | n                     | 6.8E-02 | n       |         |
|  |                |  |                | 9.0E-02                      | P              | 2.0E-01                              | I              | V       | 1       | 1.1E+05             |                                 | Ethyoxyethanol, 2-                             | 141-78-6   | 6.2E+02           | n                   | 2.6E+03          | n                  | 7.3E+01      | n          | 3.1E+02                    | n                     | 3.1E-02 | n       |         |
|  |                |  |                | 9.0E-01                      | I              | 7.0E-02                              | P              | V       | 1       | 1.1E+04             |                                 | Ethyl Acetate                                  | 140-88-5   | 4.7E+01           | n                   | 2.1E+02          | n                  |              |            | 1.4E+01                    | n                     | 3.2E-03 | n       |         |
|  |                |  |                | 5.0E-03                      | P              | 8.0E-03                              | P              | V       | 1       | 2.5E+03             |                                 | Ethyl Acrylate                                 | 97-63-2    | 1.8E+03           | ns                  | 3.1E+02          | n                  | 1.3E+03      | n          | 6.3E+02                    | n                     | 1.5E-01 | n       |         |
|  |                |  |                | 1.0E+01                      | I              | V                                    | 1              | 2.1E+03 |         |                     | Ethyl Chloride (Chloroethane)   | 75-00-3  | 1.4E+04    | ns                | 5.7E+04             | ns               | 1.0E+04            | n            | 4.4E+04    | n                          | 5.9E+00               | n       |         |         |
|  |                |  |                | 2.0E-01                      | I              | V                                    | 1              | 1.0E+04 |         |                     | Ethyl Ether                     | 60-29-7  | 1.6E+04    | ns                | 2.3E+05             | s                |                    |              | 3.9E+03    | n                          | 8.8E-01               | n       |         |         |
|  |                |  |                | 3.0E-01                      | P              | V                                    | 1              | 1.1E+03 |         |                     | Ethyl Methacrylate              | 151-29-0                                       | 6.3E+03    | ns                | 7.6E+03             | n                |                    |              | 2.0E+02    | n                          | 1.5E-01               | n       |         |         |
| 1.1E-02  | C              | 2.5E-06                                | C              | 1.0E-01                      | I              | 1.0E+00                              | I              | V       | 1       | 4.8E+02             |                                 | Ethyl-p-nitrophenyl Phosphonate                | 2104-64-5  | 6.3E-01           | n                   | 8.2E+00          | n                  |              |            | 8.9E-02                    | n                     | 2.8E-03 | n       |         |
|  |                |  |                | 7.0E-02                      | P              | 1                                    | 0.1            |         |         |                     | Ethylbenzene                    | 100-41-4                                       | 5.8E+00    | c                 | 2.5E+01             | c                | 1.1E+00            | c            | 4.9E+00    | c                          | 1.5E+00               | c       | 7.0E+02 | c       |
|  |                |  |                | 9.0E-02                      | P              | V                                    | 1              | 1.9E+05 |         |                     | Ethylene Cyanohydrin            | 109-78-4                                       | 4.4E+03    | n                 | 5.7E+04             | n                |                    |              | 1.4E+03    | n                          | 2.8E-01               | n       |         |         |
|  |                |  |                | 2.0E+00                      | I              | 4.0E-01                              | C              | 1       | 0.1     |                     | Ethylene Diamine                | 107-15-3                                       | 7.0E+03    | n                 | 1.1E+05             | nm               |                    |              | 1.8E+03    | n                          | 4.1E-01               | n       |         |         |
|  |                |  |                | 1.0E-01                      | I              | 1.6E+00                              | I              | V       | 1       | 1.5E+05             |                                 | Ethylene Glycol                                | 107-21-1   | 1.3E+05           | nm                  | 1.6E+06          | nm                 | 4.2E+02      | n          | 1.8E+03                    | n                     | 8.1E+00 | n       |         |
|  |                |  |                | 3.1E-01                      | C              | 3.0E-02                              | C              | V       | M       | 1                   | Ethylene Glycol Monobutyl Ether | 111-76-2                                       | 6.3E+03    | n                 | 8.2E+04             | n                | 1.7E+03            | n            | 7.0E+03    | n                          | 4.1E-01               | n       |         |         |
|  |                |  |                | 4.5E-02                      | C              | 1.3E-05                              | C              | 8.0E-05 | I       | 1                   | 1.2E+05                         | Ethylene Oxide                                 | 75-21-8    | 2.0E-03           | c                   | 2.5E-02          | c                  | 3.4E-04      | c          | 4.1E-03                    | c                     | 1.4E-07 | c       |         |
|  |                |  |                | 6.5E+01                      | C              | 1.9E-02                              | C              | V       | 1       | 1.5E+05             | Ethylene Thiourea               | 96-45-7  | 5.1E+00    | c                 | 5.1E+01             | c                | 2.2E-01            | c            | 9.4E-01    | c                          | 1.6E+00               | n       | 3.6E-04 | n       |
|  |                |  |                | 3.0E+00                      | I              | V                                    | 1              | 0.1     |         |                     | Ethylenimine                    | 151-56-4                                       | 2.7E-03    | c                 | 1.2E-02             | c                | 1.5E-04            | c            | 6.5E-04    | c                          | 2.4E-04               | c       | 5.2E-08 | c       |
|  |                |  |                | 2.5E-04                      | I              | V                                    | 1              | 0.1     |         |                     | Ethylphthalyl Ethyl Glycolate   | 84-72-0  | 1.9E+05    | nm                | 2.5E+06             | nm               |                    |              | 5.8E+04    | n                          | 1.3E+02               | n       |         |         |
|  |                |  |                | 2.5E-02                      | I              | V                                    | 1              | 0.1     |         |                     | Fenamiphos                      | 22224-92-6                                     | 1.6E+01    | n                 | 2.1E+02             | n                |                    |              | 4.4E+00    | n                          | 4.3E-03               | n       |         |         |
|  |                |  |                | 2.5E-02                      | I              | V                                    | 1              | 0.1     |         |                     | Fenpropathrin                   | 39515-41-8                                     | 1.6E+03    | n                 | 2.1E+04             | n                |                    |              | 6.4E+01    | n                          | 2.9E+00               | n       |         |         |
|  |                |  |                | 2.5E-02                      | I              | V                                    | 1              | 0.1     |         |                     | Fenvalerate                     | 51630-58-1                                     | 1.6E+03    | n                 | 2.1E+04             | n                |                    |              | 5.0E+02    | n                          | 3.2E+02               | n       |         |         |
|  |                |  |                | 1.3E-02                      | I              | V                                    | 1              | 0.1     |         |                     | Fluometuron                     | 2164-17-2                                      | 8.2E+02    | n                 | 1.1E+04             | n                |                    |              | 2.4E+02    | n                          | 1.9E-01               | n       |         |         |
|  |                |  |                | 4.0E-02                      | C              | 1.3E-02                              | C              | V       | 1       | 1.0E+04             | Fluoride                        | 16984-48-8                                     | 3.1E+03    | n                 | 4.7E+04             | n                | 1.4E+01            | n            | 5.7E+01    | n                          | 8.0E+02               | n       | 4.0E+03 | n       |
|  |                |  |                | 6.0E-02                      | I              | 1.3E-02                              | C              | V       | 1       | 1.2E+04             | Fluorine (Soluble Fluoride)     | 7782-41-4                                      | 4.7E+03    | n                 | 7.0E+04             | n                | 1.4E+01            | n            | 5.7E+01    | n                          | 1.2E+03               | n       | 4.0E+03 | n       |
|  |                |  |                | 8.0E-02                      | I              | V                                    | 1              | 0.1     |         |                     | Fluridone                       | 59756-60-4                                     | 5.1E+03    | n                 | 6.6E+04             | n                |                    |              | 1.4E+03    | n                          | 1.6E+02               | n       | 3.1E+02 | n       |
|  |                |  |                | 4.0E-02                      | O              | 1                                    | 0.1            |         |         |                     | Flurprimidol                    | 56425-91-3                                     | 2.5E+03    | n                 | 3.3E+04             | n                |                    |              | 6.9E+02    | n                          | 3.1E+00               | n       |         |         |
|  |                |  |                | 2.0E-03                      | O              | 1                                    | 0.1            |         |         |                     | Flusilazole                     | 85509-19-9                                     | 1.3E+02    | n                 | 1.6E+03             | n                |                    |              | 3.1E+01    | n                          | 5.1E+00               | n       |         |         |
|  |                |  |                | 5.0E-01                      | O              | 1                                    | 0.1            |         |         |                     | Flutolanil                      | 66332-96-5                                     | 3.2E+04    | n                 | 4.1E+05             | nm               |                    |              | 7.9E+03    | n                          | 4.2E+01               | n       |         |         |
|  |                |  |                | 1.0E-02                      | I              | V                                    | 1              | 0.1     |         |                     | Fluvalinate                     | 69409-94-5                                     | 6.3E+02    | n                 | 8.2E+03             | n                |                    |              | 2.0E+02    | n                          | 2.9E+02               | n       |         |         |
|  |                |  |                | 9.0E-02                      | O              | 1                                    | 0.1            |         |         |                     | Folpet                          | 133-07-3                                       | 5.7E+03    | n                 | 7.4E+04             | n                |                    |              | 1.6E+03    | n                          | 3.9E-01               | n       |         |         |
|  |                |  |                | 2.5E-03                      | O              | 1                                    | 0.1            |         |         |                     | Fomesafen                       | 72178-02-0                                     | 1.6E+02    | n                 | 2.1E+03             | n                |                    |              | 4.8E+01    | n                          | 1.6E-01               | n       |         |         |
|  |                |  |                | 2.0E-03                      | I              | V                                    | 1              | 0.1     |         |                     | Fomatos                         | 944-22-9                                       | 1.3E+02    | n                 | 1.6E+03             | n                |                    |              | 2.4E+01    | n                          | 4.7E-02               | n       |         |         |
| 2.1E-02  | C              | 1.3E-05                                | I              | 2.0E-01                      | I              | 9.8E-03                              | A              | V       | 1       | 4.2E+04             | Formaldehyde                    | 50-00-0  | 1.1E+01    | c*                | 5.0E+01             | c*               | 2.2E-01            | c            | 9.4E-01    | c*                         | 3.9E-01               | c*      | 7.8E-05 | c*      |
|  |                |  |                | 9.0E-01                      | P              | 3.0E-04                              | X              | V       | 1       | 1.1E+05             | Formic Acid                     | 64-18-6  | 2.9E+01    | n                 | 1.2E+02             | n                | 3.1E-01            | n            | 1.3E+00    | n                          | 1.3E-04               | n       |         |         |
|  |                |  |                | 2.5E+00                      | O              | 1                                    | 0.1            |         |         |                     | FoseM-AL                        | 39148-24-8                                     | 1.6E+05    | nm                | 2.1E+06             | nm               |                    |              | 5.0E+04    | n                          | 6.6E+02               | n       |         |         |
|  |                |  |                | 1.0E-03                      | X              | V                                    | 1              | 0.03    |         |                     | Furans                          | 132-64-9                                       | 7.3E+01    | n                 | 1.0E+03             | n                |                    |              | 7.9E+00    | n                          | 1.5E-01               | n       |         |         |
|  |                |  |                | 1.0E-03                      | I              | V                                    | 1              | 0.03    |         |                     | -Dibenzofuran                   | 110-00-9                                       | 7.3E+01    | n                 | 1.0E+03             | n                |                    |              | 1.9E+01    | n                          | 7.3E-03               | n       |         |         |
|  |                |  |                | 9.0E-01                      | I              | 2.0E+00                              | I              | V       | 1       | 1.0E-01             | Tetrahydrofuran                 | 109-99-9                                       | 1.8E+04    | n                 | 9.4E+04             | n                | 2.1E+03            | n            | 8.8E+03    | n                          | 3.7E-01               | n       |         |         |
| 3.8E+00  | H              |  |                | 3.0E-03                      | I              | 5.0E-02                              | H              | V       | 1       | 1.0E+04             | Furazolidone                    | 67-45-8  | 1.4E-05    | c                 | 6.0E-01             | c                | 6.0E-01            | c            | 2.0E-02    | c                          | 3.9E-05               | c       |         |         |
|  |                |  |                | 1.0E-03                      | O              | 1                                    | 0.1            |         |         | Furfural            | 98-01-1                         | 2.1E+02  | n          | 2.6E+03           | n                   | 5.2E+01          | n                  | 2.2E+02      | n          | 8.1E-03                    | n                     |         |         |         |
|  |                |  |                | 1.0E-01                      | A              | 8.0E-05                              | C              | V       | 1       | 0.1                 | Furium                          | 531-82-8                                       | 3.6E-01    | c                 | 1.5E+00             | c                | 6.5E-03            | c            | 2.9E-02    | c                          | 5.1E-12               | c       |         |         |
|  |                |  |                | 4.0E-04                      | I              | 1.0E-03                              | H              | V       | 1       | 1.1E+05             | Furmecyclox                     | 60568-05-0                                     | 1.8E+01    | c                 | 7.7E+01             | c                | 3.3E-01            | c            | 1.4E+00    | c                          | 1.1E-00               | c       |         |         |
|  |                |  |                | 4.0E-04                      | I              | 1.0E-03                              | X              | V       | 1       | 1.1E+05             | Glufosinate, Ammonium           | 77182-82-2                                     | 3.8E+02    | n                 | 4.9E+03             | n                |                    |              | 1.2E+02    | n                          | 2.6E-02               | n       |         |         |
|  |                |  |                | 1.0E-01                      | O              | 1                                    | 0.1            |         |         | Glutaraldehyde      | 111-30-8                        | 6.0E+03  | n          | 7.0E+04           | n                   | 8.3E-02          | n                  | 3.5E-01      | n          | 4.0E-01                    | n                     |         |         |         |
|  |                |  |                | 4.0E-04                      | I              | 1.0E-03                              | H              | V       | 1       | 1.1E+05             | Glycidyl                        | 765-34-4                                       | 2.3E+01    | n                 | 2.1E+02             | n                | 1.0E+00            | n            | 4.4E+00    | c                          | 3.3E-04               | n       |         |         |
|  |                |  |                | 1.0E-02                      | I              | V                                    | 1              | 0.1     |         |                     | Glyphosate                      | 1071-83-6                                      | 6.3E+03    | n                 | 8.2E+04             | n                |                    |              | 2.0E+03    | n                          | 7.0E+02               | 4.8E+00 | n       | 3.1E+00 |
|  |                |  |                | 1.0E-02                      | X              | V                                    | 1              | 0.1     |         |                     | Guaniidine                      | 113-00-8                                       | 7.8E+02    | n                 | 1.2E+04             | n                |                    |              | 2.0E+02    | n                          | 4.5E-02               | n       |         |         |
|  |                |  |                | 2.0E-02                      | P              | 1                                    | 0.1            |         |         | Guaniidine Chloride | 50-01-1                         | 1.3E+03  | n          | 1.6E+04           | n                   |                  |                    | 4.0E+02      | n          | 4.8E-02                    | n                     |         |         |         |
|  |                |  |                | 3.0E-02                      | X              | V                                    | 1              | 0.1     |         |                     | Guaniidine Nitrate              | 506-93-4                                       | 1.9E+03    | n                 | 2.5E+04             | n                |                    |              | 6.0E+02    |                            |                       |         |         |         |

| Toxicity and Chemical-specific Information |                |  |                |                              |                |                                       |                 |                  |       |                  |                          |  |             |                   | Contaminant         |                  | Screening Levels   |              |         |                            |                           |         | Protection of Ground Water SSLs |  |  |
|--|----------------|--|----------------|------------------------------|----------------|---------------------------------------|-----------------|------------------|-------|------------------|--------------------------|--|-------------|-------------------|---------------------|------------------|--------------------|--------------|---------|----------------------------|---------------------------|---------|---------------------------------|--|--|
| SFO (mg/kg-day) <sup>-1</sup>              | k <sub>e</sub> | IUR (ug/m <sup>3</sup> ) <sup>-1</sup> | k <sub>e</sub> | RFD <sub>y</sub> (mg/kg-day) | k <sub>e</sub> | RFC <sub>i</sub> (mg/m <sup>3</sup> ) | k <sub>v</sub>  | C <sub>sat</sub> | GIABS | ABS <sub>d</sub> | C <sub>ssd</sub> (mg/kg) | Analyte                                      | CAS No.     | Resident Soil key | Industrial Soil key | Resident Air key | Industrial Air key | Tapwater key | MCL key | Risk-based SSL (mg/kg) key | MCL-based SSL (mg/kg) key |         |                                 |  |  |
| 4.0E-04                                    | P              |  | 7.0E-01        | I V                          | 1              | 1.4E+02                               |                 |                  |       |                  |                          | Hexamethylphosphoramide                      | 680-31-9    | 2.5E+01           | n                   | 3.3E+02          | n                  | 8.0E+00      | n       | 1.8E-03                    | n                         |         |                                 |  |  |
|  |                |  |                |                              | 1              | 1                                     |                 |                  |       |                  |                          | Hexane, N-Hexanedioic Acid                   | 110-54-3    | 6.1E+02           | ns                  | 2.5E+03          | ns                 | 7.3E+02      | n       | 1.5E+03                    | n                         | 1.0E+01 | n                               |  |  |
| 9.5E-03                                    | P              |  | 7.0E-04        | P V                          | 1              | 6.5E+02                               |                 |                  |       |                  |                          | Hexanol, 1,2-ethyl-(2-Ethyl-1-hexanol)       | 124-04-9    | 1.3E+05           | nm                  | 1.6E+06          | nm                 | 3.1E+03      | n       | 4.0E+04                    | n                         | 9.9E+00 | n                               |  |  |
|  |                |  | 5.0E-03        | I 3.0E-02 I V                | 1              | 3.3E+03                               |                 |                  |       |                  |                          | Hexanone, 2-                                 | 591-78-6    | 2.0E+02           | n                   | 1.3E+03          | n                  | 3.1E+01      | n       | 3.1E+02                    | n                         | 3.4E-04 | n                               |  |  |
|  |                |  | 3.3E-02        | I                            |                | 1                                     | 0.1             |                  |       |                  |                          | Hexazinone                                   | 51235-04-2  | 2.1E+03           | n                   | 2.7E+04          | n                  |              |         | 6.4E+02                    | n                         | 8.8E-03 | n                               |  |  |
|  |                |  | 2.5E-02        | I                            |                | 1                                     | 0.1             |                  |       |                  |                          | Hexythiazox                                  | 78857-05-0  | 1.6E+03           | n                   | 2.1E+04          | n                  |              |         | 1.1E+02                    | n                         | 5.0E-01 | n                               |  |  |
|  |                |  | 1.7E-02        | O                            |                | 1                                     | 0.1             |                  |       |                  |                          | Hydramethylnon                               | 67485-29-4  | 1.1E+03           | n                   | 1.4E+04          | n                  |              |         | 3.4E+02                    | n                         | 1.2E+05 | n                               |  |  |
|  |                |  | 3.0E+00        | I 4.9E-03 I                  |                | 3.0E-05 P V                           | 1               | 1.1E+05          |       |                  |                          | Hydrazine                                    | 302-01-2    | 3.2E-02           | c*                  | 1.4E-01          | c*                 | 5.7E-04      | c*      | 2.5E-03                    | c*                        | 1.1E-03 | c*                              |  |  |
|  |                |  | 3.0E+00        | I 4.9E-03 I                  |                |                                       | 1               |                  |       |                  |                          | Hydrazine Sulfate                            | 10034-93-2  | 2.3E-01           | c                   | 1.1E+00          | c                  | 5.7E-04      | c       | 2.5E-03                    | c                         | 2.6E-02 | c                               |  |  |
|  |                |  |                |                              | 2.0E-02        | I V                                   | 1               |                  |       |                  |                          | Hydrogen Chloride                            | 7647-01-0   | 2.8E+07           | nm                  | 1.2E+08          | nm                 | 2.1E+01      | n       | 8.8E+01                    | n                         | 4.2E+01 | n                               |  |  |
|  |                |  | 4.0E-02        | C 1.4E-02 C V                | 1              |                                       |                 |                  |       |                  |                          | Hydrogen Fluoride                            | 7664-39-3   | 3.1E+03           | n                   | 4.7E+04          | n                  | 1.5E+01      | n       | 6.1E+01                    | n                         | 2.8E+01 | n                               |  |  |
|  |                |  |                |                              | 2.0E-03        | I V                                   | 1               |                  |       |                  |                          | Hydrogen Sulfide                             | 7783-06-4   | 2.8E+06           | nm                  | 1.2E+07          | nm                 | 2.1E+00      | n       | 8.8E+00                    | n                         | 4.2E+00 | n                               |  |  |
| 6.0E-02                                    | P              | 4.0E-02 P                              | 2.5E-03 O      |                              | 1              | 0.1                                   |                 |                  |       |                  |                          | Hydroquinone                                 | 123-31-9    | 9.0E+00           | c                   | 3.8E+01          | c                  | 1.2E+00      | c       | 1.3E+00                    | c                         | 9.0E-01 | c*                              |  |  |
| 6.1E-02                                    | O              |  |                |                              | 1              | 0.1                                   |                 |                  |       |                  |                          | Imazalil                                     | 35554-44-0  | 8.9E+00           | c*                  | 3.8E+01          | c*                 |              |         |                            |                           | 8.7E-04 | c                               |  |  |
|  |                |  | 2.5E-01        | I                            |                | 1                                     | 0.1             |                  |       |                  |                          | Imazaquin                                    | 81353-37-7  | 1.6E+04           | n                   | 2.1E+05          | nm                 |              |         |                            |                           | 2.4E+01 | n                               |  |  |
|  |                |  | 2.5E+00        | O                            |                | 1                                     | 0.1             |                  |       |                  |                          | Imazethapyr                                  | 81353-77-5  | 1.6E+05           | nm                  | 2.1E+06          | nm                 |              |         |                            |                           | 4.1E+01 | n                               |  |  |
|  |                |  | 1.0E-02        | A                            |                | 1                                     |                 |                  |       |                  |                          | Iodine                                       | 7553-56-2   | 7.8E+02           | n                   | 1.2E+04          | n                  |              |         |                            |                           | 1.2E+01 | n                               |  |  |
|  |                |  | 4.0E-02        | I                            |                | 1                                     | 0.1             |                  |       |                  |                          | Iprodione                                    | 36734-19-7  | 2.5E+03           | n                   | 3.3E+04          | n                  |              |         |                            |                           | 2.2E-01 | n                               |  |  |
|  |                |  | 7.0E-01        | P                            |                | 1                                     |                 |                  |       |                  |                          | Iron   | 7439-89-6   | 5.5E+04           | n                   | 8.2E+05          | nm                 |              |         |                            |                           | 3.5E+02 | n                               |  |  |
|  |                |  | 3.0E-01        | V                            | 1              | 1.0E+04                               |                 |                  |       |                  |                          | Isobutyl Alcohol                             | 78-78-1     | 2.3E+04           | ns                  | 3.5E+05          | s                  |              |         |                            |                           | 1.2E+01 | n                               |  |  |
| 9.5E-04                                    | I              |  | 2.0E-01 I      | 2.0E+00 C                    | 1              | 0.1                                   |                 |                  |       |                  |                          | Isophorone                                   | 78-59-1     | 5.7E+02           | c*                  | 2.4E+03          | c*                 | 2.1E+03      | n       | 8.8E+03                    | n                         | 7.8E+01 | c*                              |  |  |
|  |                |  | 1.5E-02        | I V                          | 1              |                                       |                 |                  |       |                  |                          | Isopropalin                                  | 33820-53-0  | 1.2E+03           | n                   | 1.8E+04          | n                  |              |         |                            |                           | 9.2E-01 | n                               |  |  |
|  |                |  | 2.0E+00        | P 2.0E-01 P V                | 1              | 1.1E+05                               |                 |                  |       |                  |                          | Isopropanol                                  | 67-63-0     | 5.6E+03           | n                   | 2.4E+04          | n                  | 2.1E+02      | n       | 8.8E+02                    | n                         | 8.4E-02 | n                               |  |  |
|  |                |  | 1.0E-01        | I                            |                | 1                                     | 0.1             |                  |       |                  |                          | Isopropyl Methyl Phosphonic Acid             | 1832-54-9   | 6.3E+03           | n                   | 8.2E+04          | n                  |              |         |                            |                           | 4.3E-01 | n                               |  |  |
|  |                |  | 5.0E-02        | I                            |                | 1                                     | 0.1             |                  |       |                  |                          | Isoxaben                                     | 82558-50-7  | 3.2E+03           | n                   | 4.1E+04          | n                  |              |         |                            |                           | 2.0E+00 | n                               |  |  |
|  |                |  | 3.0E-01        | A V                          | 1              |                                       |                 |                  |       |                  |                          | JP-7   | E1737665    | 4.3E+08           | nm                  | 1.8E+09          | nm                 | 3.1E+02      | n       | 1.3E+03                    | n                         | 6.3E+02 | n                               |  |  |
|  |                |  | 8.0E-03        | O                            |                | 1                                     | 0.1             |                  |       |                  |                          | Lactofen                                     | 77501-63-4  | 5.1E+02           | n                   | 6.6E+03          | n                  |              |         |                            |                           | 4.6E+00 | n                               |  |  |
|  |                |  | 2.0E-04        | X                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Lactonitrile                                 | 78-97-7     | 1.3E+01           | n                   | 1.6E+02          | n                  |              |         |                            |                           | 8.1E-04 | n                               |  |  |
|  |                |  | 5.0E-05        | P                            | 1              |                                       |                 |                  |       |                  |                          | Lanthanum                                    | 7439-91-0   | 3.9E+00           | n                   | 5.8E+01          | n                  |              |         |                            |                           |         |                                 |  |  |
|  |                |  | 2.1E-05        | P                            |                | 1                                     | 0.1             |                  |       |                  |                          | Lanthanum Acetate Hydrate                    | 100587-90-4 | 1.3E+00           | n                   | 1.7E+01          | n                  |              |         |                            |                           | 1.2E+01 | n                               |  |  |
|  |                |  | 1.9E-05        | P                            |                | 1                                     |                 |                  |       |                  |                          | Lanthanum Chloride Heptahydrate              | 10025-84-0  | 1.5E+00           | n                   | 2.2E+01          | n                  |              |         |                            |                           | 3.7E-01 | n                               |  |  |
|  |                |  | 2.8E-05        | P                            |                | 1                                     |                 |                  |       |                  |                          | Lanthanum Chloride, Anhydrous                | 10999-58-8  | 2.2E+00           | n                   | 3.3E+01          | n                  |              |         |                            |                           | 5.7E-01 | n                               |  |  |
|  |                |  | 1.6E-05        | P                            |                | 1                                     |                 |                  |       |                  |                          | Lanthanum Nitrate Hexahydrate                | 10277-43-7  | 1.3E+00           | n                   | 1.9E+01          | n                  |              |         |                            |                           | 3.2E-01 | n                               |  |  |
|  |                |  | 8.5E-03        | C 1.2E-05 C                  | 1              |                                       |                 |                  |       |                  |                          | Lead Compounds                               | 7446-27-7   | 8.2E+01           | c                   | 3.8E+02          | c                  | 2.3E-01      | c       | 1.0E+00                    | c                         | 9.1E+00 | c                               |  |  |
|  |                |  | 8.5E-03        | C 1.2E-05 C                  | 1              | 0.1                                   |                 |                  |       |                  |                          | -Lead Acetate                                | 301-04-2    | 6.4E+01           | c                   | 2.7E+02          | c                  | 2.3E-01      | c       | 1.0E+00                    | c                         | 9.2E+00 | c                               |  |  |
|  |                |  | 8.5E-03        | C 1.2E-05 C                  | 1              | 0.1                                   |                 |                  |       |                  |                          | -Lead and Compounds                          | 7439-92-1   | 4.0E+02           | G                   | 8.0E+02          | G                  | 1.5E-01      | G       | 1.5E+01                    | G                         | 1.5E+01 | c                               |  |  |
|  |                |  | 1.0E-07        | I V                          | 1              | 2.4E+00                               | Tetraethyl Lead | 3.8E+02          |       |                  |                          | Linuron                                      | 1335-32-6   | 6.4E+01           | c                   | 2.7E+02          | c                  | 2.3E-01      | c       | 1.0E+00                    | c                         | 2.0E-03 | c                               |  |  |
|  |                |  | 5.0E-06        | P V                          | 1              | 1                                     |                 |                  |       |                  |                          | Lithium                                      | 7439-93-2   | 1.6E+02           | n                   | 2.3E+03          | n                  |              |         |                            |                           | 4.0E+01 | n                               |  |  |
|  |                |  | 7.7E-03        | O                            | 1              | 0.1                                   |                 |                  |       |                  |                          | MCBA   | 94-74-6     | 3.2E+01           | n                   | 4.1E+02          | n                  |              |         |                            |                           | 7.5E+00 | n                               |  |  |
|  |                |  | 4.4E-03        | O                            | 1              | 0.1                                   |                 |                  |       |                  |                          | MCPB   | 94-81-5     | 2.8E+02           | n                   | 3.6E+03          | n                  |              |         |                            |                           | 6.5E+01 | n                               |  |  |
|  |                |  | 1.0E-03        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | MCPP   | 93-65-2     | 6.3E+01           | n                   | 8.2E+02          | n                  |              |         |                            |                           | 4.7E+03 | n                               |  |  |
|  |                |  | 2.0E-02        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Malathion                                    | 121-75-5    | 1.3E+03           | n                   | 1.6E+04          | n                  |              |         |                            |                           | 3.9E+02 | n                               |  |  |
|  |                |  | 1.0E-01        | I 7.0E-04 C                  | 1              | 0.1                                   |                 |                  |       |                  |                          | Maleic Anhydride                             | 108-31-6    | 6.3E+03           | n                   | 8.0E+04          | n                  | 7.3E-01      | n       | 1.9E+03                    | n                         | 3.8E+01 | n                               |  |  |
|  |                |  | 5.0E-01        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Maleic Hydrazide                             | 123-33-1    | 3.2E+04           | n                   | 4.1E+05          | nm                 |              |         |                            |                           | 1.0E+04 | n                               |  |  |
|  |                |  | 1.0E-04        | P                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Malononitrile                                | 109-77-3    | 6.3E+00           | n                   | 8.2E+01          | n                  |              |         |                            |                           | 2.0E+00 | n                               |  |  |
|  |                |  | 3.0E-02        | H                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Mancozeb                                     | 8018-01-7   | 1.9E+03           | n                   | 2.5E+04          | n                  |              |         |                            |                           | 5.4E+02 | n                               |  |  |
|  |                |  | 5.0E-03        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Maneb  | 12427-38-2  | 3.2E+02           | n                   | 4.1E+03          | n                  |              |         |                            |                           | 9.8E+01 | n                               |  |  |
|  |                |  | 1.4E-01        | I 5.0E-05 I                  | 1              |                                       |                 |                  |       |                  |                          | Manganese (Diet)                             | 7439-96-5   | 1.8E+03           | n                   | 2.6E+04          | n                  | 5.2E-02      | n       | 2.2E-01                    | n                         | 4.7E-06 | n                               |  |  |
|  |                |  | 2.4E-02        | G 5.0E-05 I                  | 1              | 0.04                                  |                 |                  |       |                  |                          | Manganese (Non-diet)                         | 7439-96-5   | 1.8E+03           | n                   | 2.6E+04          | n                  | 5.2E-02      | n       | 2.2E-01                    | n                         | 2.8E+01 | n                               |  |  |
|  |                |  | 9.0E-05        | H                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Mephosfolan                                  | 950-10-7    | 5.7E+00           | n                   | 7.4E+01          | n                  |              |         |                            |                           | 2.6E-03 | n                               |  |  |
|  |                |  | 3.0E-02        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Mepiquat Chloride                            | 24307-26-4  | 1.9E+03           | n                   | 2.5E+04          | n                  |              |         |                            |                           | 2.0E-01 | n                               |  |  |
|  |                |  | 4.0E-03        | P                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Mercaptobenzothiazole, 2-                    | 149-30-4    | 4.9E+01           | c**                 | 2.1E+02          | c*                 |              |         |                            |                           | 1.8E-02 | c*                              |  |  |
|  |                |  |                |                              |                |                                       |                 |                  |       |                  |                          | Mercury Compounds                            | 7487-94-7   | 2.3E+01           | n                   | 3.5E+02          | n                  | 3.1E-01      | n       | 1.3E+00                    | n                         | 5.7E+00 | n                               |  |  |
|  |                |  | 3.0E-04        | I 3.0E-04 G                  | 0.07           |                                       |                 |                  |       |                  |                          | -Mercuric Chloride (and other Mercury salts) | 7439-97-6   | 1.1E+01           | ns                  | 4.6E+01          | ns                 | 3.1E-01      | n       | 1.3E+00                    | n                         | 2.0E+00 | n                               |  |  |
|  |                |  | 3.0E-04        | I V                          | 1              | 3.1E+00                               |                 |                  |       |                  |                          | -Mercury (elemental)                         |             |                   |                     |                  |                    |              |         |                            | 3.3E-02                   | n       |                                 |  |  |
|  |                |  | 1.0E-04        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | -Methyl Mercury                              | 22967-92-6  | 7.8E+00           | n                   | 1.2E+02          | n                  |              |         |                            |                           | 1.4E+01 | n                               |  |  |
|  |                |  | 8.0E-05        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | -Phenylmercuric Acetate                      | 62-38-4     | 5.1E+00           | n                   | 6.6E+01          | n                  |              |         |                            |                           | 5.0E-04 | n                               |  |  |
|  |                |  | 3.0E-05        | I V                          | 1              |                                       |                 |                  |       |                  |                          | Merphos                                      | 150-50-5    | 2.3E+00           | n                   | 3.5E+01          | n                  |              |         |                            |                           | 5.9E-02 | n                               |  |  |
|  |                |  | 1.0E-04        | O                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Merphos Oxide                                | 78-48-8     | 6.3E+00           | n                   | 8.2E+01          | n                  |              |         |                            |                           | 1.4E-03 | n                               |  |  |
|  |                |  | 6.0E-02        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Metalaxyl                                    | 57837-19-1  | 3.8E+03           | n                   | 4.9E+04          | n                  |              |         |                            |                           | 3.3E-01 | n                               |  |  |
|  |                |  | 1.0E-04        | I 3.0E-02 P V                | 1              | 4.6E+03                               |                 |                  |       |                  |                          | Methacrylonitrile                            | 126-98-7    | 7.5E+00           | n                   | 1.0E+02          | n                  | 3.1E+01      | n       | 1.3E+02                    | n                         | 4.3E-04 | n                               |  |  |
|  |                |  | 5.0E-05        | I                            | 1              | 0.1                                   |                 |                  |       |                  |                          | Methamidophos                                | 10265-92-6  |                   |                     |                  |                    |              |         |                            |                           |         |                                 |  |  |

| Toxicity and Chemical-specific Information |                |   |                |                                 |                |   |  |            |             |                  |                            |             |             |                                 |                                   | Contaminant                                 | Screening Levels                              |                           |               |                                     |                             |  |  |
|--|----------------|---|----------------|---------------------------------|----------------|---|--|------------|-------------|------------------|----------------------------|-------------|-------------|---------------------------------|-----------------------------------|---|---|---------------------------|---------------|-------------------------------------|-----------------------------|--|--|
| SFO<br>(mg/kg-day) <sup>-1</sup>           | k <sub>e</sub> | IUR<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | k <sub>e</sub> | RFD <sub>o</sub><br>(mg/kg-day) | k <sub>e</sub> | RC <sub>i</sub><br>(mg/m <sup>3</sup> ) <sup>-1</sup> | k <sub>v</sub>                                   | mutagen    | GIABS       | ABS <sub>d</sub> | C <sub>ss</sub><br>(mg/kg) | Analyte     | CAS No.     | Resident Soil<br>(mg/kg)<br>key | Industrial Soil<br>(mg/kg)<br>key | Resident Air<br>(ug/m <sup>3</sup> )<br>key | Industrial Air<br>(ug/m <sup>3</sup> )<br>key | Tapwater<br>(ug/L)<br>key | MCL<br>(ug/L) | Risk-based<br>SSL<br>(mg/kg)<br>key | MCL-based<br>SSL<br>(mg/kg) |  |  |
| 1.0E-03                                    | X              | 1.0E-03                                   | 1              | 2.0E-02 P V                     | 1              | 6.8E+03   | Methyl Acrylate                                  | 96-33-3    | 1.5E+02 n   | 6.1E+02 n        | 2.1E+01 n                  | 8.8E+01 n   | 4.2E+01 n   | 8.9E-03 n                       | n                                 | 8.9E-03 n                                   | n   | 8.9E-03 n                 | 1.2E+00 n     | 1.2E+00 n                           |                             |  |  |
|  |                | 1.0E-03                                   | 1              | 6.0E-01 I 5.0E+00 I V           | 1              | 2.8E+04   | Methyl Ethyl Ketone (2-Butanone)                 | 78-93-3    | 2.7E+04 s   | 5.2E+03 n        | 2.2E+04 n                  | 5.6E+03 n   | 4.2E+01 n   | 1.2E+00 n                       | c**                               | 1.2E+00 n                                   | c**   | 1.2E+00 n                 | 1.3E-06 c**   | 1.3E-06 c**                         |                             |  |  |
|  |                | 1.0E-03                                   | 1              | 2.0E-05 X V                     | 1              | 1.8E+05   | Methyl Hydrazine                                 | 60-34-4    | 1.4E-01 c** | 6.2E-01 c**      | 2.8E-03 c**                | 1.2E-02 c** | 5.6E-03 c** | 5.6E-03 c**                     |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 3.0E+00 I V                     | 1              | 3.4E+03   | Methyl Isobutyl Ketone (4-methyl-2-pentanone)    | 108-10-1   | 3.3E+04 n   | 1.4E+05 s        | 1.3E+03 n                  | 1.3E+04 n   | 6.3E+03 n   | 6.3E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 1.0E-03 C V                     | 1              | 1.0E+04   | Methyl Isocyanate                                | 624-83-9   | 4.6E+00 n   | 1.9E+01 n        | 1.0E+00 n                  | 4.4E+00 n   | 2.1E+00 n   | 2.1E+00 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 1.4E+00 I 7.0E-01 I V           | 1              | 2.4E+03   | Methyl Methacrylate                              | 80-62-6    | 4.4E+03 ns  | 1.9E+04 ns       | 7.3E+02 n                  | 3.1E+03 n   | 1.4E+03 n   | 1.4E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.5E-04 I                       | 1              | 0.1   | Methyl Parathion                                 | 298-00-0   | 1.6E+01 n   | 2.1E+02 n        |                            |             | 4.5E+00 n   | 4.5E+00 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 6.0E-02 X                       | 1              | 0.1   | Methyl Phosphonic Acid                           | 993-13-5   | 3.8E+03 n   | 4.9E+04 n        |                            |             | 1.2E+03 n   | 1.2E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 6.0E-03 H 4.0E-02 H V           | 1              | 3.9E+02   | Methyl Styrene (Mixed Isomers)                   | 25013-15-4 | 3.2E+02 n   | 2.6E+03 n        | 4.2E+01 n                  | 1.8E+02 n   | 2.3E+01 n   | 2.3E+01 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 9.9E-02                                    | C              | 2.8E-05 C                                 |                |                                 | 1              | 0.1   | Methyl methanesulfonate                          | 66-27-3    | 5.5E+00 c   | 2.3E+01 c        | 1.0E-01 c                  | 4.4E+01 c   | 7.9E-01 c   | 7.9E-01 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.8E-03                                    | C              | 2.6E-07 C                                 |                |                                 | 1              | 8.9E+03   | Methyl tert-Butyl Ether (MTBE)                   | 1634-04-4  | 4.7E+01 c   | 2.1E+02 c        | 1.1E+01 c                  | 4.7E+01 c   | 1.4E+01 c   | 1.4E+01 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 3.0E-04 X                       | 1              | 0.1   | Methyl-1,4-benzenediamine dihydrochloride, 2-    | 615-45-2   | 1.9E+01 n   | 2.5E+02 n        |                            |             | 6.0E+00 n   | 6.0E+00 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 9.0E-03                                    | P              |   |                | 3.0E+00 X V                     | 1              | 2.5E+03   | Methyl-2-Pentanol, 4-                            | 108-11-2   | 5.4E+04 ns  | 2.3E+05 s        | 3.1E+03 n                  | 1.3E+04 n   | 6.3E+03 n   | 6.3E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 8.3E+00                                    | C              | 2.4E-03 C                                 |                |                                 | 1              | 0.1   | Methyl-5-Nitroaniline, 2-                        | 99-55-8    | 6.0E+01 c*  | 2.6E+02 c*       |                            |             | 8.2E+00 c*  | 8.2E+00 c*                      |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.3E-01                                    | C              | 3.7E-05 C                                 |                |                                 | 1              | 0.1   | Methyl-5-Nitro-N-nitrosouquadiine, N-            | 70-25-7    | 6.5E-02 c   | 2.8E-01 c        | 1.2E-03 c                  | 5.1E-03 c   | 9.4E-03 c   | 9.4E-03 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 1.0E-02 A                       | 1              | 0.1   | Methylaniline Hydrochloride, 2-                  | 636-21-5   | 4.2E+00 c   | 1.8E+01 c        | 7.6E-02 c                  | 3.3E-01 c   | 6.0E-01 c   | 6.0E-01 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.0E-04 X                       | 1              | 0.1   | Methylbenzene, 1,4-diamine monohydrochloride, 2- | 124-58-3   | 6.3E+02 n   | 8.2E+03 n        |                            |             | 2.0E+02 n   | 2.0E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 3.0E-04 X                       | 1              | 0.1   | Methylbenzene, 1,4-diamine sulfate, 2-           | 74612-12-7 | 1.3E+01 n   | 1.6E+02 n        |                            |             | 4.0E+00 n   | 4.0E+00 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.0E-01                                    | X              |   |                |                                 | 1              | 0.1   | Methylbenzyl Chloride                            | 615-50-9   | 5.4E+00 c** | 2.3E+01 c*       |                            |             | 7.8E-01 c** | 7.8E-01 c**                     |                                   |   |   |                           |               |                                     |                             |  |  |
| 2.2E+01                                    | C              | 6.3E-03 C                                 |                | 1                               | 6.0E-03 I      | 1   | 6.0E-01 I V                                      | M          | 1           | 0.1              | 5.3E+03                    | 5.5E-03 c   | 1.0E-04 c   | 1.9E-03 c                       | 1.1E-03 c                         | 1.1E-03 c                                   | 5.0E+00 c**                                   | 2.2E-03 c                 | 2.9E-03 c**   | 1.3E-03                             |                             |  |  |
| 2.0E-03                                    | I              | 1.0E-08 I                                 |                |                                 |                |   |  | 5.7E+01    | 5.7E+01 c** | 1.0E+02 c**      | 1.2E+03 c**                | 1.1E+01 c** |             |                                 |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.0E-01                                    | P              | 4.3E-04 C                                 |                | 2.0E-03 P                       |                |   | Methylene-bis(2-chloroaniline), 4,4'             | 101-14-4   | 1.2E+00 c   | 2.3E+01 c*       | 2.4E-03 c                  | 2.9E-02 c   | 1.6E-01 c   | 1.6E-01 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 4.6E-02                                    | I              | 1.3E-05 C                                 |                |                                 | 1              | 0.1   | Methylene-bis(N,N-dimethyl Aniline), 4,4'        | 101-61-1   | 1.2E+01 c   | 5.0E+01 c        | 2.2E-01 c                  | 9.4E-01 c   | 7.0E-01 c   | 7.0E-01 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.6E+00                                    | C              | 4.6E-04 C                                 |                | 2.0E-02 C                       | 1              | 0.1   | Methylenebisbenzamine, 4,4'                      | 101-77-9   | 3.4E-01 n   | 4.1E+00 c        | 6.1E-03 c                  | 2.7E-02 c   | 4.7E-02 c   | 4.7E-02 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 6.0E-04 I                       | 1              | 0.1   | Methylenebisphenyl Diisocyanate                  | 101-68-8   | 8.5E+05 nm  | 3.6E+06 nm       | 6.3E-01 n                  | 2.6E+00 n   |             |                                 |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 7.0E-02 H V                     | 1              | 0.1   | Methylstyrene, Alpha-                            | 98-83-9    | 5.5E+03 ns  | 8.2E+04 ns       |                            |             | 7.8E+02 n   | 7.8E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 1.5E-01 I                       | 1              | 0.1   | Metalochlor                                      | 51218-45-2 | 9.5E+03 n   | 1.2E+05 nm       |                            |             | 2.7E+03 n   | 2.7E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.5E-02 I                       | 1              | 0.1   | Metrobuzin                                       | 21087-64-9 | 1.6E+03 n   | 2.1E+04 n        |                            |             | 4.9E+02 n   | 4.9E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.5E-01 I                       | 1              | 0.1   | Metsulfuron-methyl                               | 74223-64-6 | 1.6E+04 n   | 2.1E+05 nm       |                            |             | 4.9E+03 n   | 4.9E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 3.0E+00 P V                     | 1              | 0.1   | Mineral oils                                     | 8012-95-1  | 2.3E+05 s   | 3.5E+06 s        |                            |             | 6.0E+04 n   | 6.0E+04 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.8E+01                                    | C              | 5.1E-03 C                                 |                | 2.0E-04 I                       | V              | 1   | Mirex  | 2385-85-5  | 3.6E-02 c   | 1.7E-01 c        | 5.5E-04 c                  | 2.4E-03 c   | 8.8E-04 c   | 8.8E-04 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.0E-03 I                       | 1              | 0.1   | Molinate   | 2212-67-1  | 1.3E+02 n   | 1.6E+03 n        |                            |             | 3.0E+01 n   | 3.0E+01 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 5.0E-03 I                       | 1              |   | Molybdenum                                       | 7439-98-7  | 3.9E+02 n   | 5.8E+03 n        |                            |             | 1.0E+02 n   | 1.0E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 1.0E-01 I                       | 1              |   | Monochloramine                                   | 10599-90-3 | 7.8E+03 n   | 1.2E+05 nm       |                            |             | 2.0E+03 n   | 2.0E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.0E-03 P                       | 1              | 0.1   | Monomethylaniline                                | 100-61-8   | 1.3E+02 n   | 1.6E+03 n        |                            |             | 3.8E+01 n   | 3.8E+01 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.5E-02 I                       | 1              | 0.1   | Myclobutanil                                     | 88671-89-0 | 1.6E+03 n   | 2.1E+04 n        |                            |             | 4.5E+02 n   | 4.5E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 3.0E-04 X                       | V              | 1   | N,N-Diphenyl-1,4-benzenediamine                  | 74-31-7    | 1.9E+01 n   | 2.5E+02 n        |                            |             | 3.6E+00 n   | 3.6E+00 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.0E-03 I                       | V              | 1   | Naled  | 300-76-5   | 1.6E+02 n   | 2.3E+03 n        |                            |             | 4.0E+01 n   | 4.0E+01 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 3.0E-02 X 1.0E-01 P V           | 1              | 0.1   | Naphtha, High Flash Aromatic (HFAN)              | 64742-95-6 | 2.3E+03 n   | 3.5E+04 n        | 1.0E+02 n                  | 4.4E+02 n   | 1.5E+02 n   | 1.5E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.8E+00                                    | C              | 0.0E+00 C                                 |                |                                 | 1              | 0.1   | Naphthylamine, 2-                                | 91-59-8    | 3.0E-01 c   | 1.3E+00 c        |                            |             | 3.9E-02 c   | 3.9E-02 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 1.2E-01 O                       | 1              | 0.1   | Napropamide                                      | 15299-97-7 | 7.6E+03 n   | 9.8E+04 n        |                            |             | 2.0E+03 n   | 2.0E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.6E-04 C 1.1E-02 C 1.4E-05 C   | V              | 1   | Nickel Acetate                                   | 373-02-4   | 6.7E+02 n   | 8.1E+03 n        | 1.1E-02 c                  | 4.7E-02 c   | 2.2E+02 c   | 2.2E+02 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.6E-04 C 1.1E-02 C 1.4E-05 C   | V              | 1   | Nickel Carbonate                                 | 3333-67-3  | 6.7E+02 n   | 8.1E+03 n        | 1.1E-02 c                  | 4.7E-02 c   | 2.2E+02 n   | 2.2E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.6E-04 C 1.1E-02 C 1.4E-05 C   | V              | 1   | Nickel Carbonyl                                  | 13463-39-3 | 8.2E+02 n   | 1.1E+04 n        | 1.1E-02 c                  | 4.7E-02 c   | 2.2E+02 c   | 2.2E+02 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.6E-04 C 1.1E-02 C 1.4E-05 C   | V              | 0.04  | Nickel Hydroxide                                 | 12054-48-7 | 8.2E+02 n   | 1.1E+04 n        | 1.1E-02 c                  | 4.7E-02 c   | 2.0E+02 n   | 2.0E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.6E-04 C 1.1E-02 C 2.0E-05 C   | V              | 0.04  | Nickel Oxide                                     | 1313-99-1  | 8.4E+02 n   | 1.2E+04 n        | 1.1E-02 c                  | 4.7E-02 c   | 2.0E+02 n   | 2.0E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.4E-04 I 1.1E-02 C 1.4E-05 C   | V              | 0.04  | Nickel Refinery Dust                             | E175532    | 8.2E+02 n   | 1.1E+04 n        | 1.2E-02 c                  | 5.1E-02 c   | 2.2E+02 n   | 2.2E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.6E-04 C 2.0E-02 I 9.0E-05 A   | V              | 0.04  | Nickel Soluble Salts                             | 7440-02-0  | 1.5E+03 n   | 2.2E+04 n        | 1.1E-02 c                  | 4.7E-02 c   | 3.9E+02 n   | 3.9E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.7E+00                                    | C              | 4.8E-04 I                                 |                | 1.1E-02 C 1.4E-05 C             | V              | 0.04  | Nickel Subsulfide                                | 12035-72-2 | 4.1E-01 c   | 1.9E+00 c        | 5.8E-03 c                  | 2.6E-02 c   | 4.5E-02 c   | 4.5E-02 c                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 2.6E-04 C 1.4E-05 C             | V              | 1   | Nitrate (measured as nitrogen)                   | 14797-65-0 | 6.7E+02 n   | 8.1E+03 n        | 1.1E-02 c                  | 4.7E-02 c   | 2.2E+02 n   | 2.2E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 1.0E-01 I                       | 1              |   | Nitrate + Nitrite (measured as nitrogen)         | E701177    | 7.8E+03 n   | 1.2E+05 nm       |                            |             | 2.0E+03 n   | 2.0E+03 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 1.0E-01 I                       | 1              |   | Nitrite (measured as nitrogen)                   | 14797-65-0 | 8.8E-04 n   | 1.9E+03 n        | 1.1E-02 c                  | 4.7E-02 c   | 2.2E+02 n   | 2.2E+02 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 2.0E-02                                    | P              | 4.0E-03 I                                 | 2.0E-03 P      | 1                               | 0.1            | 3.1E+03   | Nitroaniline, 4-                                 | 100-01-6   | 2.7E+01 c** | 1.1E+02 c*       | 6.3E+00 n                  | 2.6E+01 c   | 3.8E+00 c*  | 3.8E+00 c*                      |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                | 4.0E-05 I                                 | 2.0E-03 I      | 9.0E-03 I V                     | 1              | 0.1   | Nitrobenzene                                     | 98-95-3    | 5.1E+00 c*  | 2.2E+01 c*       | 7.0E-02 c                  | 3.1E-01 c   | 1.4E-01 c*  | 1.4E-01 c*                      |                                   |   |   |                           |               |                                     |                             |  |  |
|  |                |   |                | 3.0E+03 P                       | 1              | 0.1   | Nitrocellulose                                   | 9004-70-0  | 1.9E+08 nm  | 2.5E+09 nm       |                            |             | 6.0E+07 n   | 6.0E+07 n                       |                                   |   |   |                           |               |                                     |                             |  |  |
| 1.3E+00</                                  |                |   |                |                                 |                |   |  |            |             |                  |                            |             |             |                                 |                                   |   |   |                           |               |                                     |                             |  |  |

Regional Screening Level (BSL) Summary Table (TR=1E-06, HQ=1) November 2019

Key: I = IRIS; P = PPTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPTV Screening Level; H = HEAST; W = TEF applied; E = RPF applied; G = user's guide Section 5; M = mutation; V = volatile; R = RBA applied; c = cancer; n = noncancer; \* = where: n SL < 100X c SL; \*\* = where n SL < 10X c SL; SSL values are based on DAF=1; m = ceiling limit exceeded; a = Csaf exceeded;

| Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDS; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; W = TEF applied; E = RPF applied; G = user's guide Section 5; M = mutagen; V = volatile; R = RBA applied; c = cancer; n = noncancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded. |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | Contaminant                     |                                   |   |   |                           |               |                                     | Protection of Ground Water SSLs |  |  |  |
|--|----------------|---|----------------|---------------------------------|----------------|---|----------------|----------------|---------|-------|------------------|-----------------------------|---------|---------|---------------------------------|-----------------------------------|---|---|---------------------------|---------------|-------------------------------------|---------------------------------|--|--|--|
| Toxicity and Chemical-specific Information   |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | Contaminant                     |                                   |   |   |                           |               |                                     | Protection of Ground Water SSLs |  |  |  |
| SFO<br>(mg/kg-day) <sup>-1</sup>   | k <sub>e</sub> | IUR<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | k <sub>e</sub> | RfD <sub>o</sub><br>(mg/kg-day) | k <sub>e</sub> | RC <sub>i</sub><br>(mg/m <sup>3</sup> ) | k <sub>e</sub> | v <sub>l</sub> | mutagen | GIABS | ABS <sub>d</sub> | C <sub>sat</sub><br>(mg/kg) | Analyte | CAS No. | Resident Soil<br>(mg/kg)<br>key | Industrial Soil<br>(mg/kg)<br>key | Resident Air<br>(ug/m <sup>3</sup> )<br>key | Industrial Air<br>(ug/m <sup>3</sup> )<br>key | Tapwater<br>(ug/L)<br>key | MCL<br>(ug/L) | Risk-based<br>SSL<br>(mg/kg)<br>key | MCL-based<br>SSL<br>(mg/kg)     |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | ~Tricalcium phosphate           | 7758-87-4                         | 3.8E+06                                     | nm  | 5.7E+07                   | nm            | 9.7E+05                             | n                               |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | ~Trimagnesium phosphate         | 7757-87-2                         | 3.8E+06                                     | nm  | 5.7E+07                   | nm            | 9.7E+05                             | n                               |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | ~Tripotassium phosphate         | 7778-53-7                         | 3.8E+06                                     | nm  | 5.7E+07                   | nm            | 9.7E+05                             | n                               |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |
|  |                |   |                |                                 |                |   |                |                |         |       |                  |                             |         |         | 4.9E+01 P                       | 1                                 |   |   |                           |               |                                     |                                 |  |  |  |

| Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDS; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; W = TEF applied; E = RPF applied; G = user's guide Section 5; M = mutagen; V = volatile; R = RBA applied ; c = cancer; n = noncancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded. |                |   |                |                                 |                |   |                |         |       |                  |                                   |   |            |                                 |                                   |   |   |                                 |               |                                     |                             |         |   |
|---|----------------|---|----------------|---------------------------------|----------------|---|----------------|---------|-------|------------------|-----------------------------------|---|------------|---------------------------------|-----------------------------------|---|---|---------------------------------|---------------|-------------------------------------|-----------------------------|---------|---|
| Toxicity and Chemical-specific Information  |                |   |                |                                 |                |   |                |         |       | Contaminant      |                                   | Screening Levels  |            |                                 |                                   |   |   | Protection of Ground Water SSLs |               |                                     |                             |         |   |
| SFO<br>(mg/kg-day) <sup>-1</sup>  | k <sub>e</sub> | IUR<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | k <sub>e</sub> | RFD <sub>o</sub><br>(mg/kg-day) | k <sub>e</sub> | RC <sub>i</sub><br>(mg/m <sup>3</sup> ) <sup>-1</sup> | k <sub>v</sub> | mutagen | GIABS | ABS <sub>d</sub> | C <sub>ss</sub><br>(mg/kg)        | Analyte   | CAS No.    | Resident Soil<br>(mg/kg)<br>key | Industrial Soil<br>(mg/kg)<br>key | Resident Air<br>(ug/m <sup>3</sup> )<br>key | Industrial Air<br>(ug/m <sup>3</sup> )<br>key | Tapwater<br>(ug/L)<br>key       | MCL<br>(ug/L) | Risk-based<br>SSL<br>(mg/kg)<br>key | MCL-based<br>SSL<br>(mg/kg) |         |   |
| 1.9E-01   | O              |   |                | 5.0E-03                         | I              | 4.0E-02   | O              | 2.0E-03 | V     | 1                | 0.1                               | Propanil  | 709-98-8   | 3.2E+02                         | n                                 | 4.1E+03                                     | c   | 8.2E+01                         | n             | 4.5E-02                             | n                           |         |   |
|   |                |   |                | 4.0E-02                         | O              | 2.0E-03   | V              | 1       |       | 1                | 0.1                               | Propargite  | 2312-35-8  | 2.8E+00                         | c                                 | 1.2E+01                                     | c   | 1.6E-01                         | c             | 1.1E-02                             | c                           |         |   |
|   |                |   |                | 2.0E-03                         | I              |   |                |         |       | 1.1E+05          |                                   | Propargyl Alcohol   | 107-19-7   | 1.6E+02                         | n                                 | 2.3E+03                                     | n   | 4.0E+01                         | n             | 8.1E-03                             | n                           |         |   |
|   |                |   |                | 2.0E-02                         | I              |   |                |         |       | 1                | 0.1                               | Propazine   | 139-40-2   | 1.3E+03                         | n                                 | 1.6E+04                                     | n   | 3.4E+02                         | n             | 3.0E-01                             | n                           |         |   |
|   |                |   |                | 2.0E-02                         | I              |   |                |         |       | 1                | 0.1                               | Propham   | 122-42-9   | 1.3E+03                         | n                                 | 1.6E+04                                     | n   | 3.5E+02                         | n             | 2.2E-01                             | n                           |         |   |
|   |                |   |                | 1.0E-01                         | O              |   |                |         |       | 1                | 0.1                               | Propiconazole   | 60207-90-1 | 6.3E+03                         | n                                 | 8.2E+04                                     | n   | 1.6E+03                         | n             | 5.3E+00                             | n                           |         |   |
|   |                |   |                | 8.0E-03                         | I              | V   |                |         |       | 1                | 3.3E+04                           | Propionaldehyde   | 123-38-6   | 7.5E+01                         | n                                 | 3.1E+02                                     | n   | 8.3E+00                         | n             | 3.5E+01                             | n                           |         |   |
|   |                |   |                | 1.0E-01                         | X              | 1.0E+00   | X              | V       |       | 1                | 2.6E+02                           | Propyl benzene  | 103-65-1   | 3.8E+03                         | ns                                | 2.4E+04                                     | ns  | 1.0E+03                         | n             | 4.4E+03                             | n                           |         |   |
|   |                |   |                | 3.0E+00                         | C              | V   |                |         | 1     | 3.5E+02          | Propylene                         | 115-07-1  | 2.2E+03    | ns                              | 9.3E+03                           | ns  | 3.1E+03                                       | n                               | 1.3E+04       | n                                   |                             |         |   |
|   |                |   |                | 2.0E+01                         | P              |   |                |         |       | 1                | 0.1                               | Propylene Glycol  | 57-55-6    | 1.3E+06                         | nm                                | 1.6E+07                                     | nm  | 4.0E+05                         | n             | 8.1E+01                             | n                           |         |   |
|   |                |   |                | 7.0E-01                         | H              | 2.0E+00   | I              | V       |       | 1                | 7.8E+04                           | Propylene Glycol Dinitrate  | 6423-43-4  | 3.9E+05                         | nm                                | 1.6E+06                                     | nm  | 2.8E-01                         | n             | 1.2E+01                             | n                           |         |   |
|   |                |   |                | 1.0E-03                         | I              | V   |                |         | 1     | 5.3E+05          | Propylene Glycol Monomethyl Ether | 107-98-2  | 4.1E+04    | n                               | 3.7E+05                           | s   | 2.1E+03                                       | n                               | 8.8E+03       | n                                   |                             |         |   |
|   |                |   |                | 5.0E+04                         | I              |   |                |         |       | 1                | 0.1                               | Pyridine  | 75-56-9    | 2.1E+00                         | c                                 | 9.7E+00                                     | c   | 7.6E-01                         | c*            | 3.3E+00                             | c                           |         |   |
|   |                |   |                |                                 |                |   |                |         |       | 1                | 110-86-1                          | Quinalphos  | 13593-03-8 | 7.8E+01                         | n                                 | 1.2E+03                                     | n   | 2.0E+01                         | n             | 6.8E-03                             | n                           |         |   |
|   |                |   |                | 3.0E+00                         | I              |   |                |         |       | 1                | 0.1                               | Quinoline   | 91-22-5    | 1.8E-01                         | c                                 | 7.7E-01                                     | c   | 2.4E-02                         | c             | 7.8E-05                             | c                           |         |   |
|   |                |   |                | 9.0E-03                         | I              |   |                |         |       | 1                | 0.1                               | Quinalfop-ethyl   | 76578-14-8 | 5.7E+02                         | n                                 | 7.4E+03                                     | n   | 1.2E+02                         | n             | 1.9E+00                             | n                           |         |   |
|   |                |   |                | 3.0E+04                         | A              |   |                |         |       | 1                |                                   | Refractory Ceramic Fibers (units in fibers)                                     | E715557    |                                 |                                   | 3.1E+04                                     | G   | 1.3E+05                         | G             |                                     |                             |         |   |
|   |                |   |                | 3.0E-02                         | I              |   |                |         |       | 1                | 0.1                               | Resmethrin  | 10453-86-8 | 1.9E+03                         | n                                 | 2.5E+04                                     | n   | 6.7E+01                         | n             | 4.2E+01                             | n                           |         |   |
|   |                |   |                | 5.0E-02                         | H              | V   |                |         | 1     |                  | Ronnel                            | 299-84-3  | 3.9E+03    | n                               | 5.8E+04                           | n   | 4.1E+02                                       | n                               | 3.7E+00       | n                                   |                             |         |   |
|   |                |   |                | 4.0E-03                         | I              |   |                |         |       | 1                | 0.1                               | Rotenone  | 83-79-4    | 2.5E+02                         | n                                 | 3.3E+03                                     | n   | 6.1E+01                         | n             | 3.2E+01                             | n                           |         |   |
|   |                |   |                | 2.2E-01                         | C              | 6.3E-05   | C              |         |       | M                | 1                                 | Safrole   | 94-59-7    | 5.5E-01                         | c                                 | 1.0E+01                                     | c   | 1.6E-02                         | c             | 1.9E-01                             | c                           |         |   |
|   |                |   |                | 5.0E-03                         | I              |   |                |         |       | 1                |                                   | Selenious Acid  | 7783-00-8  | 3.9E+02                         | n                                 | 5.8E+03                                     | n   | 1.0E+02                         | n             | 5.0E+05                             | c                           |         |   |
|   |                |   |                | 5.0E-03                         | I              | 2.0E-02   | C              |         |       | 1                |                                   | Selenium  | 7782-49-2  | 3.9E+02                         | n                                 | 5.8E+03                                     | n   | 1.1E+05                         | nm            | 5.0E+01                             | 5.2E-01                     | 2.6E-01 |   |
|   |                |   |                | 5.0E-03                         | C              | 2.0E-02   | C              |         |       | 1                |                                   | Selenium Sulfide  | 7446-34-6  | 3.9E+02                         | n                                 | 5.8E+03                                     | n   | 2.1E+01                         | n             | 8.8E+01                             | n                           | 1.0E+02 | n |
|   |                |   |                | 1.4E-01                         | O              |   |                |         |       | 1                | 0.1                               | Selhydroxim   | 74051-80-2 | 8.8E+03                         | n                                 | 1.1E+05                                     | nm  | 1.6E+03                         | n             | 1.4E+01                             | n                           |         |   |
|   |                |   |                | 3.0E-03                         | C              |   |                |         |       | 1                |                                   | Silica (crystalline, respirable)  | 7631-86-9  | 4.3E+06                         | nm                                | 1.8E+07                                     | nm  | 3.1E+00                         | n             | 1.3E+01                             | n                           |         |   |
|   |                |   |                | 5.0E-03                         | I              |   |                |         |       | 0.04             |                                   | Silver  | 7440-22-4  | 3.9E+02                         | n                                 | 5.8E+03                                     | n   | 9.4E+01                         | n             | 8.0E-01                             | n                           |         |   |
|   |                |   |                | 5.0E-03                         | I              |   |                |         |       | 1                | 0.1                               | Simazine  | 122-34-9   | 4.5E+00                         | c*                                | 1.9E+01                                     | c   | 6.1E-01                         | n             | 3.0E-04                             | c                           | 2.1E+00 | n |
|   |                |   |                | 1.3E-02                         | I              |   |                |         |       | 1                | 0.1                               | Sodium Acifluorfen  | 62476-59-9 | 8.2E+02                         | n                                 | 1.1E+04                                     | n   | 2.6E+02                         | n             |                                     |                             |         |   |
|   |                |   |                | 4.0E-03                         | I              |   |                |         |       | 1                |                                   | Sodium Azide  | 26628-22-8 | 3.1E+02                         | n                                 | 4.7E+03                                     | n   | 8.0E+01                         | n             | 1.8E-04                             | c                           |         |   |
|   |                |   |                | 3.0E-02                         | I              |   |                |         |       | 1                | 0.1                               | Sodium Diethylthiocarbamate   | 148-18-5   | 2.0E+00                         | c                                 | 8.5E+00                                     | c   | 2.9E-01                         | c             | 1.8E-04                             | c                           |         |   |
|   |                |   |                | 5.0E-02                         | A              | 1.3E-02   | C              |         |       | 1                |                                   | Sodium Fluoride   | 62-74-8    | 3.9E+03                         | n                                 | 5.8E+04                                     | n   | 1.4E+01                         | n             | 5.0E+03                             | 4.0E+00                     | 8.1E-05 | n |
|   |                |   |                | 2.0E-05                         | I              |   |                |         |       | 1                | 0.1                               | Sodium Fluoroacetate  | 62-74-8    | 1.3E+00                         | n                                 | 1.6E+01                                     | n   | 4.0E-01                         | n             |                                     |                             |         |   |
|   |                |   |                | 1.0E-03                         | H              |   |                |         |       | 1                |                                   | Sodium Metavanadate   | 13718-26-8 | 7.8E+01                         | n                                 | 1.2E+03                                     | n   | 2.0E+01                         | n             |                                     |                             |         |   |
|   |                |   |                | 8.0E-04                         | P              |   |                |         |       | 1                |                                   | Sodium Tungstate  | 13472-45-2 | 6.3E+01                         | n                                 | 9.3E+02                                     | n   | 1.6E+01                         | n             |                                     |                             |         |   |
|   |                |   |                | 2.4E-02                         | H              |   |                |         |       | 1                |                                   | Sodium Tungstate Dihydrate  | 10213-10-2 | 6.3E+01                         | n                                 | 9.3E+02                                     | n   | 1.6E+01                         | n             |                                     |                             |         |   |
|   |                |   |                | 3.0E-02                         | I              |   |                |         |       | 1                | 0.1                               | Stirofos (Tetrachlorovinphos)   | 961-11-5   | 2.3E+01                         | c*                                | 9.6E+01                                     | c   | 2.8E+00                         | c             | 8.2E-03                             | c                           |         |   |
|   |                |   |                | 6.0E-01                         | I              |   |                |         |       | 1                |                                   | Strontium, Stable   | 7440-24-6  | 4.7E+04                         | n                                 | 7.0E+05                                     | nm  | 1.2E+04                         | n             | 4.2E+02                             | n                           |         |   |
|   |                |   |                | 3.0E-04                         | I              |   |                |         |       | 1                | 0.1                               | Strychnine  | 57-24-9    | 1.9E+01                         | n                                 | 2.5E+02                                     | n   | 5.9E+00                         | n             | 6.5E-02                             | n                           |         |   |
|   |                |   |                | 2.0E-01                         | I              | 1.0E+00   | I              | V       |       | 1                | 8.7E+02                           | Styrene   | 100-42-5   | 6.0E+03                         | ns                                | 3.5E+04                                     | n   | 1.2E+03                         | n             | 1.0E+02                             | 1.3E+00                     | 1.1E-01 | n |
|   |                |   |                | 3.0E-03                         | P              |   |                |         |       | 1                | 0.1                               | Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)                                | 57964-39-3 | 1.9E+02                         | n                                 | 2.5E+03                                     | n   | 4.8E+03                         | n             | 1.0E+02                             | 1.0E+02                     |         |   |
|   |                |   |                | 3.0E-03                         | P              |   |                |         |       | 1                | 0.1                               | Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)                                | 57964-40-6 | 1.9E+02                         | n                                 | 2.5E+03                                     | n   | 4.8E+01                         | n             | 2.0E+01                             | n                           | 4.4E-03 | n |
|   |                |   |                | 8.0E-04                         | P              |   |                |         |       | 1                | 0.1                               | Sulfolan  | 126-33-0   | 6.3E+01                         | n                                 | 8.2E+02                                     | n   | 2.1E+00                         | n             | 2.0E+01                             | n                           | 6.5E-02 | n |
|   |                |   |                | 8.0E-04                         | P              |   |                |         |       | 1                | 0.1                               | Sulfonylbis(4-chlorobenzene), 1,1'-   | 80-07-9    | 5.1E+01                         | n                                 | 6.6E+02                                     | n   | 1.1E+02                         | n             | 1.1E+01                             | n                           |         |   |
|   |                |   |                | 1.0E-03                         | C              | V   |                |         |       | 1                |                                   | Sulfur Trioxide   | 7446-11-9  | 1.4E+06                         | nm                                | 6.0E+06                                     | nm  | 1.0E+00                         | n             | 4.4E+00                             | n                           | 2.1E+00 | n |
|   |                |   |                | 1.0E-03                         | C              |   |                |         |       | 1                |                                   | Sulfuric Acid   | 7664-93-9  | 1.4E+06                         | nm                                | 6.0E+06                                     | nm  | 1.0E+00                         | n             | 4.4E+00                             | n                           |         |   |
|   |                |   |                | 2.5E-02                         | I              | 7.1E-06   | C              |         |       | 1                | 0.1                               | Sulfuric acid, 2-chloroethyl 2-(4-(1-dimethylethyl)phenoxy)-1-methylethyl ester | 140-57-8   | 2.2E+01                         | c                                 | 9.2E+01                                     | c   | 4.0E-01                         | c             | 1.3E+00                             | c                           | 1.5E-02 | c |
|   |                |   |                | 3.0E-02                         | H              |   |                |         |       | 1                | 0.1                               | TCMTB   | 21564-17-0 | 1.9E+03                         | n                                 | 2.5E+04                                     | n   | 4.8E+02                         | n             | 3.3E+00                             | n                           |         |   |
|   |                |   |                | 7.0E-02                         | I              |   |                |         |       | 1                | 0.1                               | Tebuthuron  | 34014-18-1 | 4.4E+03                         | n                                 | 5.7E+04                                     | n   | 1.4E+03                         | n             | 3.9E+01                             | n                           |         |   |
|   |                |   |                | 2.0E-02                         | H              |   |                |         |       | 1                | 0.1                               | Temephos  | 3383-96-8  | 1.3E+03                         | n                                 | 1.6E+04                                     | n   | 4.0E+02                         | n             | 7.6E+01                             | n                           |         |   |
|   |                |   |                | 1.3E-02                         | I              |   |                |         |       | 1                | 0.1                               | Terbacil  | 5902-51-2  | 8.2E+02                         | n                                 | 1.1E+04                                     | n   | 2.5E+02                         | n             | 7.5E-02                             | n                           |         |   |
|   |                |   |                | 2.5E-05                         | H              | V   |                |         |       | 1                | 3.1E+01                           | Terbufos  | 13071-79-9 | 2.0E+00                         | n                                 | 2.9E+01                                     | n   | 2.4E-01                         | n             | 5.2E-04                             | n                           |         |   |
|   |                |   |                | 1.0E-03                         | I              |   |                |         |       | 1                | 0.1                               | Terbutryl   | 886-50-0   | 6.3E+01                         | n                                 | 8.2E+02                                     | n   | 1.3E+01                         | n             | 1.9E-02                             | n                           |         |   |
|   |                |   |                | 5.0E-03                         | C              | 1.3E-06   | C              |         |       | 1                |                                   | Tert-Butyl Acetate  | 540-88-5   | 8.1E+00                         | c                                 | 3.6E+01                                     | c   | 2.2E+00                         | c             | 9.4E+00                             | c                           | 7.6E-04 | c |
|   |                |   |                | 1.0E-04                         | I              |   |                |         |       | 1                | 0.1                               | Tetrabromodiphenyl ether, 2,2',4,4'-(BDE-47)                                    | 5436-43-1  | 6.3E+00                         | n                                 | 8.2E+01                                     | n   | 2.0E+00                         | n             | 5.3E-02                             | n                           | 7.9E-03 | n |
|   |                |   |                | 3.0E-04                         | I              | V   |                |         |       | 1                |                                   | Tetrachlorobenzene, 1,2,4,5-  | 95-94-3    | 2.3E+01                         | n                                 | 3.5E+02                                     | n   | 1.7E+00                         | n             |                                     |                             |         |   |
|   |                |   |                | 2.6E-02                         | I              | 3.0E-02   | I              | V       |       | 1                | 6.8E+02                           | Tetrachloroethane, 1,1,1,2-   | 630-20-6   | 2.0E+00                         | c                                 | 8.8E+00                                     | c   | 3.8E-01                         | c             | 1.7E+00                             | c                           | 2.2E-04 | c |
|   |                |   |                | 2.0E-01                         | I              | 5.8E-05   | C              | 2.0E-02 | I     | 1                | 1.9E+03                           | Tetrachloroethane, 1,1,2,2-   | 79-34-5    | 6.0E+01                         | c                                 | 2.7E+00                                     | c   | 4.8E-02                         | c             | 2.1E-01                             | c                           | 7.0E-06 | c |

Regional Screening Level (RSI) Summary Table (TR=1E-06, HQ=1) November 2019

| Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; W = TEF applied; E = RPF applied; G = user's guide Section 5; M = mutagen; V = volatile; R = RBA applied ; c = cancer; n = noncancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded. |                |   |                |                                 |                |  |                |                             |         |                  |                    |                  |                                 |                                   | Screening Levels                            |   |                           |                                 |                                     |                             |    |
|---|----------------|---|----------------|---------------------------------|----------------|--|----------------|-----------------------------|---------|------------------|--------------------|------------------|---------------------------------|-----------------------------------|---|---|---------------------------|---------------------------------|-------------------------------------|-----------------------------|----|
| Toxicity and Chemical-specific Information  |                |   |                |                                 |                |  |                |                             |         | Contaminant      |                    | Screening Levels |                                 |                                   |   |   |                           | Protection of Ground Water SSLs |                                     |                             |    |
| SFO<br>(mg/kg-day) <sup>-1</sup>  | k <sub>e</sub> | IUR<br>(ug/m <sup>3</sup> ) <sup>-1</sup> | k <sub>e</sub> | RfD <sub>o</sub><br>(mg/kg-day) | k <sub>e</sub> | RfC <sub>i</sub><br>(mg/m <sup>3</sup> ) | k <sub>v</sub> | C <sub>sat</sub><br>(mg/kg) | GIABS   | ABS <sub>d</sub> | Analyte            | CAS No.          | Resident Soil<br>(mg/kg)<br>key | Industrial Soil<br>(mg/kg)<br>key | Resident Air<br>(ug/m <sup>3</sup> )<br>key | Industrial Air<br>(ug/m <sup>3</sup> )<br>key | Tapwater<br>(ug/L)<br>key | MCL<br>(ug/L)                   | Risk-based<br>SSL<br>(mg/kg)<br>key | MCL-based<br>SSL<br>(mg/kg) |    |
|   |                |   | 1.0E-03        | I                               | V              |  | 1              |                             |         |                  | Vernolate          | 1929-77-7        | 7.8E+01                         | n                                 | 1.2E+03                                     | n   |                           | 1.1E+01                         | n                                   | 8.9E-03                     | n  |
|   |                |   | 1.2E-03        | O                               |                |  | 1              | 0.1                         |         |                  | Vinclozolin        | 50471-44-8       | 7.6E+01                         | n                                 | 9.8E+02                                     | n   |                           | 2.1E+01                         | n                                   | 1.6E-02                     | n  |
|   |                |   | 1.0E+00        | H                               | 2.0E-01        | I  | V              | 1                           | 2.8E+03 |                  | Vinyl Acetate      | 108-05-4         | 9.1E+02                         | ns                                | 3.8E+03                                     | 2.1E+02                                       | n                         | 8.8E+02                         | n                                   | 4.1E+02                     | n  |
| 7.2E-01   | I              | 4.4E-06                                   | 3.2E-05        | H                               | 3.0E-03        | I  | V              | 1                           | 2.5E+03 |                  | Vinyl Bromide      | 593-60-2         | 1.2E-01                         | c*                                | 5.2E-01                                     | 8.8E-02                                       | c*                        | 3.8E-01                         | c*                                  | 1.8E-01                     | c* |
|   |                |   | 3.0E-04        | I                               | 1.0E-01        | I  | V              | M                           | 3.9E+03 |                  | Vinyl Chloride     | 75-01-4          | 5.9E-02                         | c                                 | 1.7E+00                                     | 1.7E-01                                       | c                         | 2.8E+00                         | c                                   | 2.0E+00                     | c  |
|   |                |   | 3.0E-04        | I                               |                |  |                | 1                           | 0.1     |                  | Warfarin           | 81-81-2          | 1.9E+01                         | n                                 | 2.5E+02                                     | n   |                           | 5.6E+00                         | n                                   | 5.9E-03                     | n  |
|   |                |   | 2.0E-01        | G                               | 1.0E-01        | G  | V              | 1                           | 3.9E+02 |                  | Xylene, m-         | 108-38-3         | 5.5E+02                         | ns                                | 2.4E+03                                     | 1.0E+02                                       | n                         | 4.4E+02                         | n                                   | 1.9E+02                     | n  |
|   |                |   | 2.0E-01        | G                               | 1.0E-01        | G  | V              | 1                           | 4.3E+02 |                  | Xylene, o-         | 95-47-6          | 6.5E+02                         | ns                                | 2.8E+03                                     | 1.0E+02                                       | n                         | 4.4E+02                         | n                                   | 1.9E+02                     | n  |
|   |                |   | 2.0E-01        | G                               | 1.0E-01        | G  | V              | 1                           | 3.9E+02 |                  | Xylene, p-         | 106-42-3         | 5.6E+02                         | ns                                | 2.4E+03                                     | 1.0E+02                                       | n                         | 4.4E+02                         | n                                   | 1.9E+01                     | n  |
|   |                |   | 2.0E-01        | I                               | 1.0E-01        | I  | V              | 1                           | 2.6E+02 |                  | Xylenes            | 1330-20-7        | 5.8E+02                         | ns                                | 2.5E+03                                     | 1.0E+02                                       | n                         | 4.4E+02                         | n                                   | 1.9E+02                     | n  |
|   |                |   | 3.0E-04        | I                               |                |  |                | 1                           |         |                  | Zinc Phosphide     | 1314-84-7        | 2.3E+01                         | n                                 | 3.5E+02                                     | n   |                           | 6.0E+00                         | n                                   | 3.7E+02                     | n  |
|   |                |   | 3.0E-01        | I                               |                |  |                | 1                           |         |                  | Zinc and Compounds | 7440-66-6        | 2.3E+04                         | n                                 | 3.5E+05                                     | nm  |                           | 6.0E+03                         | n                                   | 3.7E+02                     | n  |
|   |                |   | 5.0E-02        | I                               |                |  |                | 1                           | 0.1     |                  | Zineb              | 12122-67-7       | 3.2E+03                         | n                                 | 4.1E+04                                     | n   |                           | 9.9E+02                         | n                                   | 2.9E+00                     | n  |
|   |                |   | 8.0E-05        | X                               |                |  |                | 1                           |         |                  | Zirconium          | 7440-67-7        | 6.3E+00                         | n                                 | 9.3E+01                                     | n   |                           | 1.6E+00                         | n                                   | 4.8E+00                     | n  |

TR=1E-06

HQ=1.0