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<h1>CSOIL 2020</h1>
<table><tbody><tr> <td /> <td /> <td /> <td /> <td>Welkom bij CSOIL
2020</td></tr>
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Disclaimer:
U heeft via het webformulier de nieuwste versie van het model CSOIL 2020 gedownload. Het model is gemaakt voor collega wetenschappers voor het uitvoeren van onderzoek naar verontreinigde bodems en hieraan gerelateerde humane risico’s. Het model maakt gebruik van in Nederland geaccepteerde en toegepaste modelconcepten. Wij adviseren het model CSOIL alleen voor onderzoek te gebruiken. Voor beoordelingen van bodemkwaliteit binnen het wettelijk kader adviseren wij gebruik te maken van de modules in de Risicotoolbox bodem (www.risicotoolboxbodem.nl).

Het programma CSOIL (versie CSOIL 2020) is met zorg opgesteld. Voor een juiste toepassing zijn er wel eisen aan de kennis en ervaring van de gebruiker. De resultaten van het gebruik zijn dan ook geheel de verantwoordelijkheid van de gebruiker; het RIVM is niet aansprakelijk voor het onjuist of niet deskundig gebruik van het model en daaruit voortvloeiende schades of voor fouten in de door het RIVM gebruikte modelconcepten of de gevolgen daarvan.

CSOIL is gratis te verkrijgen via het webformulier op www.rivm.nl/form/CSOIL. Het is niet de bedoeling dat u het model doorstuurt naar collega’s of andere geïnteresseerden. In plaats daarvan kunt u deze personen bovenstaande link naar het downloadformulier sturen. Hiermee kunnen zij zelf een gratis versie downloaden. Dit geeft ons de mogelijkheid om de gebruikers van CSOIL via het opgegeven emailadres te informeren over wijzigingen, ontwikkelingen en verbeterde versies. Het opgegeven emailadres zal alleen voor dit doeleinde gebruikt worden. Het is niet toegestaan CSOIL voor doorverkoop aan derden te gebruiken!

CSOIL 2020 is beschreven in het RIVM rapport 2020-0165 (5.1, 2, e et al., 2020), dat gedownload kan worden van de RIVM-website (via zoeken op rapportnummer 2020-0165). Wij willen u erop attenderen dat naast de inhoud van dit rapport in principe geen technische ondersteuning wordt gegeven bij de toepassing van het model.
Voor meer informatie en de juiste versie van het CSOIL 2020 model kunt u contact opnemen met CSOIL@rivm.nl.

Bugs in het model gevonden? mail het naar CSOIL@rivm.nl
Macro's:

CSOIL 2020 maakt gebruik van macro's en activeX elementen. Voor correct functioneren van het model dient daarom het gebruik van macro's toegestaan te zijn. Via File -> options -> trust center -> trust center settings kunt u het gebruik van macro's toestaan.
Disclaimer (EN):
You have downloaded the latest version of the CSOIL 2020 model through the webform. The CSOIL model is developed for scientists and researchers active in the field of soil contamination and related risk assessments. The model is based on model concepts used and accepted in The Netherlands. We strongly advise to limit the use of the CSOIL 2020 module solely to research. In order to assess soil quality within the framework of Dutch law we suggest the use of the www.risicotoolboxbodem.nl and its assessment modules.

The program CSOIL (version CSOIL 2020) was developed with diligence and care. Correct use of the model requires expert knowledge and experience. The results obtained from using CSOIL are the sole responsibility of the user; The RIVM is not liable for results, and resulting damages, culminating from erroneous or improper use of the model. Nor is the RIVM liable for the consequences resulting from errors in the model concepts used in CSOIL.

CSOIL is freely available and can be downloaded through the webform on www.rivm.nl/form/CSOIL. We request that you direct any other interested person or party to download the model through this webform. This ensures access to the latest version of the model as well as enabling us to update users about new model versions in the future through the email provided in the webform. CSOIL is a free model, and therefore is not allowed to be sold to other parties.

A detailed description of CSOIL 2020 can be found in the RIVM report 2020-0165 (5.1, 2, e et al., 2020). Besides this report no further technical support will be provided regarding the use of the CSOIL model. For more information regarding the correct version of the CSOIL 2020 model we advise you to contact CSOIL@rivm.nl

Found any bugs in the model? Mail CSOIL@rivm.nl

Language:
CSOIL is programmed in Dutch and is tailored to the conditions in The Netherlands. A basic translation was added to enable non-Dutch speakers to use the model. We aim to offer a more comprehensive translation in future updates.
Macro's:
CSOIL 2020 requires macro's to be enabled in order to function properly. Macro's can be enabled by navigating to File -> options ->trust center -> trust center settings.

<h1>start</h1>
<table><tbody><tr> <td>   Stap 1: Dossier naam</td> <td /> <td /> <td /> <td>Nummer</td> <td /> <td /> <td>Versie</td> <td>1.04</td> <td /> <td /> <td /> <td /> <td>Gekozen stoffen</td> <td>grond Concentraties [mg/kg]</td> <td>grond - bebouwd [mg/kg]</td> <td>Grond - onbebouwd [mg/kg]</td> <td>poriewater [ug/L]</td> <td>porie - bebouwd [ug/L]</td> <td>porie - onbebouwd [ug/L]</td></tr>
<tr />
<tr> <td>   Stap 2: Wat wilt u berekenen?</td> <td /> <td /> <td /> <td /> <td /> <td>   Stap 5: Modelinvoer en parameters aanpassen</td></tr>
<tr />
<tr> <td /> <td>Bereken grenswaarde humaan risico bodem</td></tr>
<tr> <td /> <td>Bereken grenswaarde humaan risico grondwater</td></tr>
<tr> <td /> <td>Bereken blootstelling en risico-index</td></tr>
<tr> <td>   Stap 3: Selecteer bodemfuncties</td></tr>
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<tr> <td /> <td>Wonen met tuin</td></tr>

<tr> <td /> <td>Plaatsen waar kinderen spelen</td></tr>
<tr> <td /> <td>Moestuinen en volkstuinen</td></tr>
<tr> <td /> <td>Landbouw</td></tr>
<tr> <td /> <td>Natuur</td></tr>
<tr> <td /> <td>Groen met natuurwaarden</td></tr>
<tr> <td /> <td>Ander groen, infrastructuur, bebouwing en industrie</td></tr>
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<tr> <td>   Stap 4: Wijzig te toetsen levensfase</td></tr>
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<tr> <td /> <td /> <td /> <td /> <td /> <td /> <td>   Stap 7: Rekenen</td></tr>
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</tbody></table>
Zie tabblad Remarks voor belangrijke opmerkingen
Warning:
1. Changes to the inputs are used in all future calculations. Reset the model to discard previous inputs. (see step 7)

2. Your inputs are not validated by the model. Model calculations may become unusable when inputs are given which are outside the bounds of the model.

3. Disabled exposure routes will remain disabled for all future calculations. Reset the model to ensure exposure routes are set to default.

<h1>Translation code</h1>
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<td>wateroplosbaarheid</td> <td>Solubility</td></tr>
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binnenlucht</td> <td>Inhalation of indoor air</td></tr>
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<tr> <td /> <td /> <td>In dit menu kunt u stofeigenschappen van de nieuwe stof invullen. Klik '?' voor een overzicht van optionele en verplichte velden.

Let op: Stofeigenschappen dienen bij 10 graden Celsius ingevuld te worden.</td> <td /> <td>In dit menu kunt u stofeigenschappen van de nieuwe stof invullen. Klik '?' voor een overzicht van optionele en verplichte velden.

Let op: Stofeigenschappen dienen bij 10 graden Celsius ingevuld te worden.</td> <td>In this menu you can enter substance properties. Click '?' for an overview of optional and required fields.

Be advised: Substance properties should be entered for 10 degrees Celsius.</td></tr>
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nieuwe stoffen</td> <td /> <td>Parameteroverzicht toevoegen nieuwe stoffen</td>
<td>Overview of parameters for new substance</td></tr>
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bodemparameters</td> <td /> <td>Aanpassen locatie- en bodemparameters</td>
<td>Change location and soil parameters</td></tr>
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<td>Blootstellingsroutes wijzigen</td> <td>Edit exposure routes</td></tr>
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<h1>Remarks</h1>
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Combitox en PCB118:
PCB 118 zit tweemaal in de database omdat deze in twee verschillende combitox groepen meedoet (2 en 3). Groep 3 bevat PCB's die een TCL waarde hebben (de Indicator PCB's). Groep 2 bevat PCB's en andere stoffen zonder TCL waarde (de Dioxines en dioxine achtige PCB's).

Wanneer PCB 118 voorkomt selecteer dan zowel PCB 118(dioxine) en PCB(indicator PCB's) en vul voor beide dezelfde concentratie in

Invoer:

Zorg dat er geen lege velden tussen de stofnamen staan
Er kan maar met 1 soort concentratie input tegelijk gerekend worden. De input opties zijn:
 - Gehalte grond
 - Grond bebouwd en grond onbebouwd
 - Poriewater concentratie geheel
 - Poriewater concentratie bebouwd en onbebouwd

Er kan maar 1 levensfase tegelijk berekend worden
Er kunnen meerdere bodemfuncties tegelijk berekend worden

Let op dat uitgebreide uitvoer voor grote aantallen stoffen een zeer grote excel sheet kan geven.

Let op: Klik tijdens de berekening niet op een ander excel sheet. Dit kan tot instabiliteit in de resultaten leiden

BCF in uitgebreide invoer:

Let op: Deze aanpassingen kunnen gemaakt worden via stap 7 "berekenen met aangepaste stofeigenschappen"

Wanneer een zelf afgeleide empirische BCF ingevuld wordt moet deze opgesplitst zijn in een BCF voor aardappelen en een BCF voor overige groenten.

Wanneer een zelf afgeleide empirische BCF ingevuld wordt moet deze gebaseerd zijn op plantgehalte/ totaalgehalte grond.

De eenheid van een empirische BCF is (mg/kg vers gewicht)/(mg/kg droge stof)

Risicogrenswaarde grondwater:

Voor meer informatie zie: RIVM rapport 2020-0165
Deze functie kan alleen gebruikt worden wanneer zeker is dat de verontreiniging alleen in de verzadigde zone zit en (ook na capilaire opstijging) geen invloed heeft op de toplaag van de bodem (inclusief de wortelzone).

Met risicogrenswaarde grondwater wordt in plaats van het totaalgehalte in de bodem 5.1, 2, e de poriewater concentratie gevarieerd. Tegelijk worden alleen de exposure pathways permeatie en uitdamping meegenomen. De rest van de routes is op 0 gesteld. Het resultaat hiervan is dat deze functie niet werkt voor metalen en de meeste anorganische stoffen omdat deze niet uitdampen of permeëren.

Wanneer de poriewater concentratie boven de maximale oplosbaarheid uitkomt wordt de maximale oplosbaarheid weergegeven en de bijhorende risico index.

Wanneer de poriewater concentratie onder de maximale oplosbaarheid zit wordt de poriewater concentratie gegeven waarbij de risico index 1 is. Dit heet ook wel de "Risk Value" of "Risicogrenswaarde"

BCF regressie en lood
In de risicotoolbox bodem wordt voor sanscrit en de diffuus lood module automatisch gebruik gemaakt van een regressie BCF voor lood.

In CSOIL is dit ook automatisch aangezet. Wel is het mogelijk dit uit te zetten zodat gebruikers zelf een BCF kunnen invullen.

Wilt u een eigen BCF voor lood en cadmium invullen dan kunt u in stap 5 via 'Aanpassen locatie en bodemparameters' de BCF regressie uitzetten. Op dat moment gebruikt het model de BCF waarden uit de eigen database. Vervolgens kunt u in stap 7 een berekening uitvoeren met aangepaste stofparameters waar u de BCF aanpast.
Combinatie tox in CSOIL 2020:
Voor de volgende stofgroepen is combinatietox actief in CSOIL:

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<table><tbody><tr> <td /> <td>CSOIL 2020</td> <td>1.04</td>
<td>12/21/22</td></tr>
<tr> <td /> <td>www.rivm.nl</td></tr>
<tr> <td /> <td>Contact</td></tr>
<tr> <td /> <td>5.1, 2, e@rivm.nl</td></tr>
<tr> <td /> <td>Documentatie en referenties</td></tr>
<tr> <td /> <td>ref: RIVM Report 2020-0165</td></tr>
<tr> <td /> <td>https://www.rivm.nl/publicaties/csoil-2020-exposure-model-for-human-health-risk-assessment-through-contaminated-soil</td></tr>
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<tr> <td>1.00</td> <td>2/24/21</td> <td>Publicatie versie</td></tr>
<tr> <td>1.01</td> <td>4/19/21</td> <td>Bug opgelost waardoor BCFregressie voor lood en cadmium niet correct geactiveerd werd</td></tr>
<tr> <td>1.01</td> <td>4/19/21</td> <td>Versie toegevoegd aan start scherm</td></tr>
<tr> <td>1.01</td> <td>4/19/21</td> <td>Versie scherm zichtbaar gemaakt voor gebruiker</td></tr>
<tr> <td>1.01</td> <td>4/19/21</td> <td>Bug opgelost waardoor na het resetten van het model de levensfase in het start scherm en de rekenmodule mogelijk van elkaar afweken.</td></tr>
<tr> <td>1.02</td> <td>4/23/21</td> <td>PFAS aan combitox toegevoegd</td></tr>
<tr> <td>1.02</td> <td>5/3/21</td> <td>Macro's gemaakt om stoffen toe te voegen en te verwijderen</td></tr>
<tr> <td>1.02</td> <td>5/4/21</td> <td>Lichte validatie voor gebruikerinput voor stoftoevoegen aangemaakt.</td></tr>
<tr> <td>1.02</td> <td>7/9/21</td> <td>Ranges voor gebruikersinput aangepast. Keuzes komen in notitie te staan</td></tr>
<tr> <td>1.02</td> <td>7/9/21</td> <td>PFOS, PFOA en GenX toegevoegd met MTR o.b.v. EFSA TDI</td></tr>
<tr> <td>1.02</td> <td>7/9/21</td> <td>Enkele bugfixes bij toevoegen van stoffen</td></tr>
<tr> <td>1.03</td> <td>12/15/21</td> <td>Extra controle op resultaten aangemaakt. Wanneer tijdens een berekening een andere excel sheet aangeklikt wordt kan het zijn dat stofnamen en ID's verkeerd toegekend worden. Hier check en waarschuwing voor aangemaakt.</td></tr>
<tr> <td>1.04</td> <td>6/27/23</td> <td>Bypass voor BCF_emp blad &root aangebracht zodat onbekende stoffen ook berekend kunnen worden</td></tr>
<tr> <td>1.04</td> <td>6/27/23</td> <td>Bypass voor f_nd aangemaakt zodat onbekende stoffen ook berekend kunnen worden</td></tr>

<tr> <td>1.04</td> <td>6/27/23</td> <td>Fout gecorrigeerd met weergeven Cmax in ug/L. Deze werd in de uitvoer met een factor 10 te hoog weergegeven. </td></tr>
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<tr> <td>LOOK-UP TABBEL keuzes</td> <td /> <td /> <td /> <td /> <td /> <td>Naam variabele</td> <td /> <td>Gebruiker invoer</td> <td /> <td>Default of berekend</td> <td>Gebruikt</td> <td /> <td>Notities</td> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /></tr>
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<td>Vw</td> <td>[-]</td> <td /> <td /> <td>3.000E-01</td> <td>3.000E-01</td>
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<td>Vs</td> <td>[-]</td> <td /> <td /> <td>5.000E-01</td> <td>5.000E-01</td>
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ALT+A+W+G</td></tr>
<tr> <td /> <td>Fractie organisch koolstof in de bodem</td> <td /> <td /> <td />
<td /> <td>foc</td> <td>[-]</td> <td /> <td /> <td>5.80%</td> <td>5.800E-02</td>
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<td /> <td>OC</td> <td>[-]</td> <td /> <td /> <td>58.00%</td> <td>5.800E-01</td>
<td>[-]</td> <td>Fractie</td> <td /> <td /> <td /> <td /> <td /> <td /> <td />
<td>To value -> 1</td></tr>
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<td /> <td /> <td>OM</td> <td>[-]</td> <td /> <td /> <td>1.000E-01</td>
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/> <td /> <td /> <td>By chaning cell Cs -> I13</td></tr>
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<td /> <td /> <td>Het kan ook met de Solver Add in</td></tr>
<tr> <td /> <td>pH</td> <td /> <td /> <td /> <td /> <td>pH</td> <td>[-]</td> <td
/> <td /> <td>6.000E+00</td> <td>6.000E+00</td> <td>[-]</td> <td /> <td />
<td /> <td /> <td /> <td /> <td /> <td /> <td /> <td>->File->Options->Addd-
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<td>Rho_water</td> <td>[kg/m3]</td> <td /> <td /> <td>1.000E+03</td>
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<td /> <td /> <td>Gebruik de Solver Add onder de Data tab in de ribbon</td></tr>
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<tr> <td /> <td>molmassa</td> <td /> <td /> <td /> <td /> <td>M</td>
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<td>[g/mol]
Author: Author:
Si = kg/mol</td> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td />
<td>Verder beschrijving, zie hier (Microsoft) en hier (MIT)</td></tr>
<tr> <td /> <td>dampdruk zuivere stof</td> <td /> <td /> <td /> <td /> <td />
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<td>0.000E+00</td> <td>[-]</td> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td />
<td /> <td /> <td>hier (MIT handleiding)</td></tr>
<tr> <td /> <td>verdelingscoeff. grond-water</td> <td /> <td /> <td /> <td /> <td />
<td>Kd</td> <td>[mol.kg-1 dw/mol.dm-3]</td> <td /> <td /> <td>3.60000E+04</td>
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Author: Author:
dm3/kg dw</td></tr>
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water</td> <td /> <td /> <td /> <td>Koc</td> <td>[l/kg]</td> <td /> <td />
<td>ERROR:#VALUE!</td> <td>ERROR:#VALUE!</td> <td>[dm3/kg]</td></tr>
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<td /> <td>Dpe</td> <td>[m2/d]</td> <td /> <td>0.000E+00</td> <td />
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<tr> <td /> <td>grond-water verdelingscoeff. metalen</td> <td /> <td /> <td /> <td />
<td /> <td>Kd_met</td> <td>[dm3/kg]</td> <td /> <td>3.600E+04</td> <td />
<td>3.600E+04</td> <td>[dm3/kg]</td></tr>
<tr />
<tr> <td /> <td>Empirische BCF aardappel in ralatie tot droge stof gehalte
Author: Voor de afleiding van interventiewaarden wordt de opname van metalen in
de plant berekend met een consumptiegemiddelde BCF waarde (zie RIVM rapport
711701 023).
Voor locatiespecifieke beoordeling (andere bodemgebruiken) dienen BCF waarden
bij voorkeur handmatig te worden ingevoerd apart voor aardappel en voor
groenten.</td> <td /> <td /> <td /> <td /> <td>BCFaard_emp</td> <td>(mg/kg
vg)/(mg/kg)</td> <td /> <td>2.839E-04</td> <td>ERROR:#VALUE!</td>
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gehalte</td> <td /> <td /> <td /> <td /> <td>BCFoverig_emp</td> <td>(mg/kg
vg)/(mg/kg)</td> <td /> <td>4.312E-03</td> <td>ERROR:#VALUE!</td>
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= BCF_emp</td> <td /> <td /> <td /> <td>BCFreg_aan_uit</td> <td>[-]</td> <td />
<td /> <td>1.000E+00</td> <td>1.000E+00</td> <td>[-]</td></tr>
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<tr> <td /> <td>zuurdissociatieconstante</td> <td /> <td /> <td /> <td />
<td>pKa</td> <td>[-]</td> <td /> <td>unknown</td> <td>unknown</td>
<td>unknown</td> <td>[-]</td></tr>
<tr> <td /> <td>fractie niet gedissocieerde stof</td> <td /> <td /> <td />
<td /> <td>f_nd</td> <td>[-]</td> <td /> <td /> <td>1.000E+00</td>
<td>1.00000E+00</td> <td>[-]</td></tr>

<tr> <td /> <td>diffusiecoefficient vrije lucht</td> <td /> <td /> <td /> <td />
<td>Da</td> <td>[m2/h]</td> <td /> <td /> <td>2.180E-02</td> <td>2.180E-02</td>
<td>[m2/h]</td></tr>
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<td>Dw</td> <td>[m2/h]</td> <td /> <td /> <td>2.180E-06</td> <td>2.180E-06</td>
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<td /> <td>DARw</td> <td>[(mg/m2)/(mg/dm3)/h]</td> <td /> <td />
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<td /> <td>0.000E+00</td></tr>
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<td>2.800E-06</td> <td>[g/(kg l.g. d)]</td></tr>
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<td>TCL</td> <td>[mg/m3]</td> <td /> <td>0.000E+00</td> <td />
<td>0.000E+00</td> <td>[g/m3]</td> <td>Gezondheidkundige advieswaarden
binnenmilieu (TCL) , 2004. Dusseldorp A, van Bruggen M, Douwes J, Janssen PJCM,
Kelfkens G. RIVM Rapport 609021029</td></tr>
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<td>MTR_LA</td> <td>[mg/kg l.g./d]</td> <td /> <td /> <td>2.800E-06</td>
<td>2.800E-06</td> <td>[g/kg l.g./d]</td></tr>
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<td>MTR_LC</td> <td>[mg/kg l.g./d]</td> <td /> <td /> <td>2.800E-06</td>
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<td>[Pa.m3/mol.k]</td> <td /> <td /> <td>8.314E+00</td> <td>8.314E+00</td>
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<td>ETA</td> <td>[Pa.h]</td> <td /> <td /> <td>5.000E-09</td> <td>5.000E-09</td>
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<td /> <td>KAPPA</td> <td>[m2]</td> <td /> <td /> <td>1.000E-11</td>
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Author: Author:

Naar NL
Controleren vertaling</td> <td /> <td /> <td /> <td /> <td>DELTAPCS</td>
<td>[Pa]</td> <td /> <td /> <td>1.000E+00</td> <td>1.000E+00</td>
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<td /> <td>dp.L</td> <td>[m]</td> <td /> <td /> <td>1.250E+00</td>
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Author: Author:

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Controleren vertaling</td> <td /> <td /> <td /> <td /> <td>dg</td> <td>[m]</td>
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Author: Author:
Naar NL
Controleren vertaling</td> <td /> <td /> <td /> <td /> <td>z</td> <td>[m]</td>
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<td>[1/h]</td></tr>
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<td>7.400E-01
Author: Voor lood geldt:
De relatieve absorptie factor is default 0,74
(ref. NoBo, 2006)
Voor alle andere stoffen geld:
De relatieve absorptie factor is default 1</td> <td /> <td>
Author: Author:
Si = kg/mol</td> <td>
Author: Voor de afleiding van interventiewaarden wordt de opname van metalen in de plant berekend met een consumptiegemiddelde BCF waarde (zie RIVM rapport 711701 023).
Voor locatiespecifieke beoordeling (andere bodemgebruiken) dienen BCF waarden bij voorkeur handmatig te worden ingevoerd apart voor aardappel en voor groenten.</td> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td />
<td /> <td>
Author: Author:
dm3/kg dw</td> <td>
Author: Author:

Naar NL
Controleren vertaling</td> <td /> <td /> <td /> <td /> <td /> <td /> <td />
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Author: Author:

Waarom het deze cel CIA2_ (vanwaar de underscore)</td> <td>[kg/m3]</td></tr>
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Author: Author:
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<td>4.00</td> <td /> <td /> <td>x</td> <td>phenanthrene</td></tr>
<tr> <td>430</td> <td>antraceen</td> <td>120-12-7</td> <td>0</td> <td>4</td>
<td>178.2074995266</td> <td>7.13E-02</td> <td>9.31E-04</td> <td>4.45E+00</td>
<td>4.30E+00</td> <td /> <td>5.00E-07</td> <td>4.00E-02</td> <td /> <td /> <td>-
</td> <td>0.00</td> <td>4.00</td> <td /> <td /> <td>x</td>
<td>anthracene</td></tr>
<tr> <td>440</td> <td>fluorantheen</td> <td>206-44-0</td> <td>0</td> <td>4</td>
<td>202.36</td> <td>2.01E-01</td> <td>3.80E-03</td> <td>5.16</td> <td>5.18</td>

<td /> <td>2.00E-07</td> <td>5.00E-02</td> <td /> <td /> <td /> <td />
<td>5.00</td> <td /> <td /> <td>x</td> <td>fluoranthene</td></tr>
<tr> <td>450</td> <td>5.1, 2, e</td> <td>218-01-9</td> <td>0</td> <td>4</td>
<td>228.27</td> <td>1.79E-03</td> <td>8.74E-08</td> <td>5.81</td> <td>5.72</td>
<td /> <td>2.00E-07</td> <td>5.00E-02</td> <td /> <td /> <td>-</td>
<td>0.00</td> <td>5.00</td> <td /> <td /> <td>x</td> <td>chrysene</td></tr>
<tr> <td>460</td> <td>benzo(a)antraceen</td> <td>56-55-3</td> <td>0</td>
<td>4</td> <td>228.30</td> <td>1.16E-02</td> <td>2.07E-07</td> <td>5.54</td>
<td>5.79</td> <td /> <td>2.00E-07</td> <td>5.00E-03</td> <td /> <td />
<td>-</td> <td>0.00</td> <td>5.00</td> <td /> <td /> <td>x</td>
<td>benzo(a)anthracene</td></tr>
<tr> <td>462</td> <td>dodecylbenzeen</td> <td>123-01-3</td> <td>0</td>
<td>8</td> <td>246.40</td> <td>1.90E-04</td> <td>3.20E-02</td> <td>8.46</td> <td
/> <td /> <td>5.00E-08</td> <td>5.00E-03</td> <td /> <td /> <td>175,00</td>
<td>0.02</td> <td /> <td /> <td /> <td /> <td>dodecylbenzene</td></tr>
<tr> <td>464</td> <td>catechol (o-dihydroxybenzeen)</td> <td>120-80-9</td>
<td>0</td> <td>3</td> <td>110.1033332324</td> <td>124076.280358782</td>
<td>3.39</td> <td>0.88</td> <td>1.85</td> <td>10.60</td> <td>0.00</td>
<td>4.00E-02</td> <td /> <td /> <td /> <td>0.28</td> <td>19.00</td> <td />
<td /> <td /> <td>catechol</td></tr>
<tr> <td>466</td> <td>pyreen</td> <td>129-00-0</td> <td>0</td> <td>4</td>
<td>202.26</td> <td>1.06E-01</td> <td>9.20E-05</td> <td>4.99</td> <td>4.83</td>
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<td>5.00</td> <td /> <td /> <td /> <td>pyrene *)</td></tr>
<tr> <td>467</td> <td>resorcinol (m-dihydroxybenzeen)</td> <td>108-46-3</td>
<td>0</td> <td>3</td> <td>110.10</td> <td>2.42E+05</td> <td>8.03E-01</td>
<td>0.8</td> <td>1.14</td> <td>9.70</td> <td>1.00E-07</td> <td>2.00E-02</td> <td
/> <td /> <td /> <td>0.20</td> <td>19.00</td> <td /> <td /> <td />
<td>resorcinol</td></tr>
<tr> <td>468</td> <td>hydrochinon (p-dihydroxybenzeen)</td> <td>123-31-9</td>
<td>0</td> <td>3</td> <td>110.10</td> <td>3.92E+04</td> <td>3.86E-02</td>
<td>0.59</td> <td>1.95</td> <td>10.6</td> <td>1.00E-07</td> <td>2.50E-02</td>
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<td>hydroquinone</td></tr>
<tr> <td>470</td> <td>5.1, 2, e</td> <td>50-32-8</td> <td>0</td> <td>4</td>
<td>252.30</td> <td>8.42E-04</td> <td>1.25E-07</td> <td>6.13</td> <td>5.82</td>
<td /> <td>2.00E-07</td> <td>5.00E-04</td> <td /> <td /> <td>-</td>
<td>0.00</td> <td>5.00</td> <td /> <td /> <td>x</td>
<td>benzo(a)pyrene</td></tr>
<tr> <td>5.1, 2, b</td> <td>5.1, 2, e</td> <td>207-08-9</td> <td>0</td>
<td>4</td> <td>252.31</td> <td>4.84E-04</td> <td>1.24E-08</td> <td>6.11</td>
<td>6.24</td> <td /> <td>2.00E-07</td> <td>5.00E-03</td> <td /> <td /> <td />
<td /> <td>5.00</td> <td /> <td /> <td>x</td> <td>benzo(k)fluoranthene</td></tr>
<tr> <td>481</td> <td>benzo[b]fluoranteen</td> <td>205-99-2</td> <td>0</td>
<td>4</td> <td>252.32</td> <td>1.68E-02</td> <td>1.82E-06</td> <td>5.78</td>
<td>5.34</td> <td /> <td>5.00E-07</td> <td>5.00E-03</td> <td /> <td />
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<td>benzo(b)fluoranthene *)</td></tr>
<tr> <td>482</td> <td>benzo[j]fluoranteen</td> <td>205-82-3</td> <td>0</td>
<td>4</td> <td>252.32</td> <td>8.81E-03</td> <td>1.82E-06</td> <td>6.11</td>
<td>5.48</td> <td /> <td>5.00E-07</td> <td>5.00E-03</td> <td /> <td />
<td>-</td> <td>0.00</td> <td>5.00</td> <td /> <td /> <td />
<td>benzo(j)fluoranthene *)</td></tr>
<tr> <td>488</td> <td>dibenzo[a,h]antraceen</td> <td>53-70-3</td> <td>0</td>
<td>4</td> <td>278.36</td> <td>8.28E-04</td> <td>2.67E-07</td> <td>7.11</td>
<td>6.14</td> <td /> <td>5.00E-07</td> <td>5.00E-04</td> <td /> <td /> <td />
<td /> <td>5.00</td> <td /> <td /> <td /> <td>dibenz(a,h)anthracene *)</td></tr>
<tr> <td>490</td> <td>indeno(1,2,3cd)pyreen</td> <td>193-39-5</td> <td>0</td>
<td>4</td> <td>276.31</td> <td>2.65E-04</td> <td>2.65E-09</td> <td>6.87</td>
<td>6.02</td> <td /> <td>2.00E-07</td> <td>5.00E-03</td> <td /> <td /> <td />
<td /> <td>5.00</td> <td /> <td /> <td>x</td> <td>indeno(1,2,3-cd)
pyrene</td></tr>
<tr> <td>500</td> <td>benzo(ghi)peryleen</td> <td>191-24-2</td> <td>0</td>
<td>4</td> <td>276.31</td> <td>1.86E-04</td> <td>5.04E-09</td> <td>6.22</td>

<td>6.43</td> <td /> <td>2.00E-07</td> <td>3.00E-02</td> <td /> <td />
<td>-</td> <td>0.00</td> <td>4.00</td> <td /> <td /> <td>x</td>
<td>benzo(ghi)perylene</td></tr>
<tr> <td>530</td> <td>monochlooretheen (Vinylchloride)</td> <td>75-01-4</td>
<td>0</td> <td>5</td> <td>62.50</td> <td>4.28E+02</td> <td>2.98E+05</td>
<td>1.521</td> <td>1.56</td> <td /> <td>1.00E-06</td> <td>6.00E-04</td>
<td>3.60E-03</td> <td /> <td>240,00</td> <td>1.49</td> <td>21.00</td> <td /> <td
/> <td>x</td> <td>monochloroethene (vinylchloride)</td></tr>
<tr> <td>540</td> <td>dichloormethaan</td> <td>75-09-2</td> <td>0</td>
<td>5</td> <td>84.91</td> <td>1.80E+04</td> <td>4.30E+04</td> <td>1.25</td>
<td>1.22</td> <td /> <td>5.00E-07</td> <td>6.00E-02</td> <td>3.00E+00</td>
<td /> <td>240,00</td> <td>0.82</td> <td>21.00</td> <td /> <td /> <td>x</td>
<td>dichloromethane (methylene chloride)</td></tr>
<tr> <td>550</td> <td>1,1-dichloorethaan</td> <td>75-34-3</td> <td>0</td>
<td>5</td> <td>98.96</td> <td>5.22E+03</td> <td>2.47E+04</td> <td>1.79</td>
<td>1.54</td> <td /> <td>5.00E-07</td> <td>8.00E-02</td> <td>3.70E-01</td>
<td /> <td /> <td /> <td>21.00</td> <td /> <td /> <td>x</td> <td>1,1-
dichloroethane</td></tr>
<tr> <td>560</td> <td>1,2-dichloorethaan</td> <td>107-06-2</td> <td>0</td>
<td>5</td> <td>98.97</td> <td>1.02E+04</td> <td>7.39E+03</td> <td>1.47</td>
<td>1.49</td> <td /> <td>3.00E-07</td> <td>1.40E-02</td> <td>4.80E-02</td>
<td /> <td /> <td /> <td>21.00</td> <td /> <td /> <td>x</td> <td>1,2-
dichloroethane</td></tr>
<tr> <td>570</td> <td>1,1-dichlooretheen</td> <td>75-35-4</td> <td>0</td>
<td>5</td> <td>97.00</td> <td>1.82E+03</td> <td>3.79E+04</td> <td>2.13</td>
<td>1.78</td> <td /> <td>1.00E-05</td> <td>3.00E-03</td> <td>1.40E-02</td>
<td /> <td /> <td /> <td>21.00</td> <td /> <td /> <td>x</td> <td>1,1-
dichloroethene </td></tr>
<tr> <td>572</td> <td>cis-1,2-dichlooretheen</td> <td>156-59-2</td> <td>0</td>
<td>5</td> <td>96.95</td> <td>7.76E+02</td> <td>1.55E+04</td> <td>1.27</td>
<td>1.82</td> <td /> <td>4.00E-08</td> <td>1.60E-02</td> <td>3.00E-02</td>
<td /> <td /> <td /> <td>21.00</td> <td /> <td /> <td>x</td> <td>1,2-
dichloroethene (cis) </td></tr>
<tr> <td>573</td> <td>trans-1,2-dichlooretheen</td> <td>156-60-5</td> <td>0</td>
<td>5</td> <td>96.95</td> <td>5.82E+02</td> <td>2.10E+04</td> <td>1.09</td>
<td>1.81</td> <td /> <td>4.00E-08</td> <td>1.60E-02</td> <td>8.00E-02</td>
<td /> <td /> <td /> <td>21.00</td> <td /> <td /> <td>x</td> <td>1,2-
dichloroethene (trans) </td></tr>
<tr> <td>580</td> <td>1,2-dichlooretheen (som)1</td> <td>540-59-0</td>
<td>0</td> <td>5</td> <td>96.95</td> <td>6.69E+02</td> <td>1.82E+04</td>
<td>1.2</td> <td>1.8</td> <td /> <td>4.00E-08</td> <td>1.60E-02</td>
<td>5.00E-02</td> <td /> <td /> <td /> <td>21.00</td> <td /> <td /> <td>x</td>
<td>1,2-dichloroethene (cis,trans) </td></tr>
<tr> <td>594</td> <td>1,2-dichloorpropaan</td> <td>78-87-5</td> <td>0</td>
<td>5</td> <td>113.00</td> <td>1.47E+03</td> <td>2.48E+03</td> <td>1.99</td>
<td>1.58</td> <td /> <td>1.00E-06</td> <td>7.00E-02</td> <td>1.20E-02</td>
<td /> <td>90,00</td> <td>0.58</td> <td>21.00</td> <td /> <td /> <td>x</td>
<td>1,2-dichloropropane </td></tr>
<tr> <td>596</td> <td>1,3-dichloorpropaan</td> <td>142-28-9</td> <td>0</td>
<td>5</td> <td>113.00</td> <td>1.47E+03</td> <td>2.48E+03</td> <td>1.99</td>
<td>1.58</td> <td /> <td>1.00E-06</td> <td>5.00E-02</td> <td>1.20E-02</td>
<td /> <td>460,00</td> <td>0.03</td> <td>21.00</td> <td /> <td /> <td>x</td>
<td>1,3-dichloropropane </td></tr>
<tr> <td>600</td> <td>trichloormethaan (chloroform)</td>
<td>67-66-3;75-62-7</td> <td>0</td> <td>5</td> <td>119.40</td> <td>9.39E+03</td>
<td>2.01E+04</td> <td>1.97</td> <td>1.66</td> <td /> <td>1.00E-06</td>
<td>3.00E-02</td> <td>1.00E-01</td> <td /> <td>130,00</td> <td>0.86</td>
<td>21.00</td> <td /> <td /> <td>x</td>
<td>trichloromethane(chloroform)</td></tr>
<tr> <td>610</td> <td>1,1,1-trichloorethaan</td> <td>71-55-6</td> <td>0</td>
<td>5</td> <td>133.40</td> <td>8.00E+02</td> <td>8.22E+03</td> <td>2.8</td>
<td>1.97</td> <td /> <td>2.00E-06</td> <td>8.00E-02</td> <td>3.80E-01</td>
<td /> <td /> <td /> <td>21.00</td> <td /> <td /> <td>x</td> <td>1,1,1-
trichloroethane </td></tr>

<tr> <td>620</td> <td>1,1,2-trichloorethaan</td> <td>79-00-5</td> <td>0</td>
<td>5</td> <td>133.40</td> <td>3.06E+03</td> <td>1.59E+03</td> <td>1.89</td>
<td>1.97</td> <td /> <td>2.00E-06</td> <td>4.00E-03</td> <td>1.70E-02</td>
<td /> <td /> <td /> <td>21.00</td> <td /> <td /> <td>x</td> <td>1,1,2-
trichloroethane </td></tr>
<tr> <td>630</td> <td>trichlooretheen (tri)</td> <td>79-01-6</td> <td>0</td>
<td>5</td> <td>131.40</td> <td>1.16E+03</td> <td>5.81E+03</td> <td>2.61</td>
<td>2.06</td> <td /> <td>1.60E-06</td> <td>5.00E-02</td> <td>2.00E-01</td>
<td /> <td>-</td> <td>0.08</td> <td>21.00</td> <td /> <td /> <td>x</td>
<td>trichloroethene</td></tr>
<tr> <td>640</td> <td>tetrachloormethaan (tetra)</td> <td>56-23-5</td>
<td>0</td> <td>5</td> <td>153.66</td> <td>9.38E+02</td> <td>9.49E+03</td>
<td>2.83</td> <td>1.75</td> <td /> <td>8.00E-07</td> <td>4.00E-03</td>
<td>6.00E-02</td> <td /> <td>-</td> <td>0.08</td> <td>21.00</td> <td /> <td />
<td>x</td> <td>tetrachloromethane (carbon tetrachloride)</td></tr>
<tr> <td>650</td> <td>tetrachlooretheen (per)</td> <td>127-18-4</td> <td>0</td>
<td>5</td> <td>165.81</td> <td>1.19E+02</td> <td>1.57E+03</td> <td>3.4</td>
<td>2.42</td> <td /> <td>8.00E-07</td> <td>1.60E-02</td> <td>2.50E-01</td>
<td /> <td>240,00</td> <td>1.11</td> <td>21.00</td> <td /> <td /> <td>x</td>
<td>tetrachloroethene</td></tr>
<tr> <td>660</td> <td>monochloorbenzeen</td> <td>108-90-7</td> <td>0</td>
<td>6</td> <td>112.59</td> <td>5.07E+02</td> <td>1.19E+03</td> <td>2.89</td>
<td>2.34</td> <td /> <td>3.50E-06</td> <td>2.00E-01</td> <td>5.00E-01</td>
<td /> <td /> <td /> <td>15.00</td> <td /> <td /> <td>x</td>
<td>monochlorobenzene</td></tr>
<tr> <td>672</td> <td>1,4-dichloorbenzeen</td> <td>106-46-7</td> <td>0</td>
<td>6</td> <td>147.00</td> <td>6.05E+01</td> <td>9.06E+01</td> <td>3.44</td>
<td>2.82</td> <td /> <td>2.00E-06</td> <td>1.00E-01</td> <td>6.70E-01</td>
<td /> <td /> <td /> <td>15.00</td> <td /> <td /> <td>x</td> <td>1,4-
dichlorobenzene</td></tr>
<tr> <td>674</td> <td>1,2-dichloorbenzeen</td> <td>95-50-1</td> <td>0</td>
<td>6</td> <td>147.00</td> <td>1.40E+02</td> <td>1.30E+02</td> <td>3.43</td>
<td>2.6</td> <td /> <td>2.00E-06</td> <td>4.30E-01</td> <td>6.00E-01</td> <td />
<td /> <td /> <td>15.00</td> <td /> <td /> <td>x</td>
<td>1,2-dichlorobenzene</td></tr>
<tr> <td>682</td> <td>1,2,3-trichloorbenzeen</td> <td>87-61-6</td> <td>0</td>
<td>6</td> <td>181.44</td> <td>1.36E+01</td> <td>2.47E+01</td> <td>4.14</td>
<td>3.23</td> <td /> <td>1.00E-06</td> <td>8.00E-03</td> <td>5.00E-02</td>
<td /> <td /> <td /> <td>15.00</td> <td /> <td /> <td>x</td> <td>1,2,3-
trichlorobenzene</td></tr>
<tr> <td>683</td> <td>1,2,4-Trichlorobenzene</td> <td>120-82-1</td> <td>0</td>
<td>6</td> <td>181.44</td> <td>2.88E+01</td> <td>4.07E+01</td> <td>4.05</td>
<td>3.28</td> <td /> <td>1.00E-06</td> <td>8.00E-03</td> <td>5.00E-02</td>
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trichlorobenzene</td></tr>
<tr> <td>684</td> <td>1,3,5-trichloorbenzeen</td> <td>108-70-3</td> <td>0</td>
<td>6</td> <td>181.42</td> <td>4.71E+00</td> <td>2.80E+02</td> <td>4.19</td>
<td>3.98</td> <td /> <td>1.00E-06</td> <td>8.00E-03</td> <td>5.00E-02</td>
<td /> <td /> <td /> <td>15.00</td> <td /> <td /> <td>x</td> <td>1,3,5-
trichlorobenzene</td></tr>
<tr> <td>692</td> <td>1,2,3,4-tetrachloorbenzeen</td> <td>634-66-2</td>
<td>0</td> <td>6</td> <td>215.90</td> <td>3.40E+00</td> <td>6.78E-01</td>
<td>4.64</td> <td>3.91</td> <td /> <td>1.00E-06</td> <td>5.00E-04</td> <td />
<td /> <td /> <td /> <td>15.00</td> <td /> <td /> <td>x</td> <td>1,2,3,4-
tetrachlorobenzene</td></tr>
<tr> <td>694</td> <td>1,2,3,5-tetrachloorbenzeen</td> <td>634-90-2</td>
<td>0</td> <td>6</td> <td>215.90</td> <td>2.61E+00</td> <td>1.29E+00</td>
<td>4.66</td> <td>3.57</td> <td /> <td>1.00E-06</td> <td>5.00E-04</td> <td />
<td /> <td /> <td /> <td>15.00</td> <td /> <td /> <td>x</td> <td>1,2,3,5-
tetrachlorobenzene</td></tr>
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<td>0</td> <td>6</td> <td>215.90</td> <td>6.82E-01</td> <td>4.00E+00</td>
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tetrachlorophenol</td></tr>
<tr> <td>760</td> <td>pentachloorfenol</td> <td>87-86-5</td> <td>0</td>
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<tr> <td>788</td> <td>PCB 118 (indicator PCB)</td> <td>31508-00-6</td>
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<td>PCB 118 (indicator PCB)</td></tr>
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<tr> <td>795</td> <td>monochlooranilinen (som)1</td> <td /> <td>0</td>
<td>6</td> <td>5.1, 2, e 60</td> <td>3.47E+03</td> <td>3.10E+00</td> <td>1.88</td>
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</td></tr>
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<td>322.00</td> <td>3.00E-04</td> <td>1.40E-06</td> <td>6.8</td> <td>5.608</td>
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butyltinoxide</td></tr>
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<tr> <td>1120</td> <td>dimethyl ftalaat</td> <td>131-11-3</td> <td>0</td>
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*)</td></tr>
<tr> <td>1130</td> <td>diethyl ftalaat</td> <td>84-66-2</td> <td>0</td>
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*)</td></tr>
<tr> <td>1140</td> <td>di-isobutyl ftalaat</td> <td>84-69-5</td> <td>0</td>
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*)</td></tr>
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phthalate</td></tr>
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EC12</td></tr>
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Author: Author:
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en erf)</td> <td>natuur</td> <td>groen met natuurwaarden</td> <td>ander groen,
infrastructuur, bebouwing en industrie</td> <td>VRIJE DEFINITIE
SCENARIO</td></tr>
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userforms</td></tr>
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<td>aan? (ja/nee)</td> <td>factor</td> <td /> <td /> <td>ja</td></tr>
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Om zelf een leeftijdspatroon te definiëren kunnen de gele waarden aangepast
worden

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Author: Author:
Gebaseerd op Swartjes et al. 2007

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g/day</td> <td>Mean
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<td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td /> <td />
<td>Empiric BCF Other vegetables</td> <td>BCFoverig_emp</td> <td>optional</td>
<td>Yes</td> <td>no</td> <td>1E-20</td> <td /> <td>(mg/kg vg)/(mg/kg)</td></tr>
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<td>Maximum Permissible Risk</td> <td>MTR</td> <td>Yes</td> <td>Yes</td>
<td>Yes</td> <td>1E-20</td> <td /> <td>[mg/(kg l.g. d)]</td></tr>
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<td>Tolerable concentration air</td> <td>TCL</td> <td>optional</td>
<td>optional</td> <td>optional</td> <td>1E-20</td> <td /> <td>[mg/m3]</td></tr>
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<td>Combitox</td> <td>CombiTox</td> <td>optional</td> <td>optional</td>
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<td>Beschrijving rekenmodi</td> <td /> <td /> <td /> <td>Bij aanpassen gebruik
shift + enter voor nieuwe regels</td></tr>
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gebruikt ten behoeve van de landbouwproductie. De boerderij en het erf vallen niet onder de bodemfunctie Landbouw. Deze vallen onder een bodemunctie: 'Wonen met tuin', 'Moestuinen en volkstuinen' of 'Plaatsen waar kinderen spelen'.
De bodemfunctie 'Natuur' geldt voor gebieden binnen de Ecologische Hoofdstructuur (natuur-terreinen en verbindingszones), andere natuurgebieden en andere gebieden met een bijzondere ecologische waarde. Het gaat om gebieden waar er voor wordt gekozen het ecosysteem zo goed mogelijk te beschermen.

Het kan hierbij overigens ook gaan om bijvoorbeeld delen van bedrijfsterreinen die zeer extensief worden gebruikt of bijzondere dijklichamen of spoordijken. Ook parken en groengebieden in stedelijk gebied kunnen qua bodemkwaliteit aan hoge ecologische eisen voldoen en deze kunnen daarom desgewenst ook onder de bodemfunctie 'Natuur' worden gebracht.
De bodemfunctie 'Groen met natuurwaarden' hoort bij groene gebieden met een zekere ecologische waarde. Het kan bij deze bodemfunctie gaan om terreinen voor sport- en recreatie en bepaalde stadsparken. Ook grote kantorenlocaties met veel groenvoorzieningen kunnen hieronder vallen, alsmede siertuinen bij flats en zorginstellingen, dijken en brede bermen bij grote wegen.

De bestaande bodemkwaliteit kan een rol spelen bij de keuze voor deze bodemfunctie. Het moet wel gaan om gebieden waar sprake is van weinig bodemcontact door de mens.

Als er sprake is van veel bodemcontact moet in principe de bodemfunctie 'Plaatsen waar kinderen spelen' worden gekozen.
'Ander groen' is groen dat weinig ecologische waarde heeft, zoals siergroen in openbaar gebied, bermen, groenstroken, taluds, etc. Onder deze bodemfunctie vallen wegen en spoorwegen met weinig groen. Ook kan deze bodemfunctie worden toegepast op terreinen voor sport- en recreatie en bepaalde stadsparken.

Verder valt te denken aan bedrijventerreinen, haventerreinen, niet grond-gebonden glastuinbouw, etc. Ook alle bebouwing en verharding kan onder deze functie vallen, dus ook dicht bebouwd stedelijk gebied zonder tuinen.
De humane grenswaarde voor bodem is de concentratie van stoffen in de bodem waarbij de blootstelling van de mens aan deze stoffen gelijk is aan het MTR-humaan. De berekende blootstelling is afhankelijk van de gekozen bodemfunctie en blootstellingscenario's.

Deze rekenmodus geeft daarom de bodemconcentratie waarbij voor de gekozen bodemfunctie de blootstelling gelijk is aan het MTR-humaan
De risico-index geeft de verhouding van de berekende blootstelling en het MTR-humaan. Met deze rekenmodus kan vanuit een door u ingevulde concentratie van stoffen in bodem of grondwater en voor de gekozen bodemfunctie de risico-index bepaald worden.
De humane grenswaarde voor grondwater is de concentratie aan stoffen in grondwater waarbij de blootstelling van de mens aan deze stoffen gelijk is aan het MTR-humaan. De berekende blootstelling is afhankelijk van de gekozen bodemfunctie en blootstellingscenario's

Deze rekenmodus geeft daarom de grondwaterconcentratie waarbij voor de gekozen bodemfunctie de blootstelling gelijk is aan het MTR-humaan

Let op:
Het wordt aangeraden om voor een juist gebruik van deze modelfunctie eerst het RIVM rapport over CSOIL te raadplegen.
Een blootstellingsscenario bevat de parameters die de blootstelling beschrijven van een bodemfunctie. Bijvoorbeeld: de tijd die een kind of volwassene binnenlucht inademen. Door deze parameters aan te passen kan een variatie op een al bestaand blootstellingscenario gemaakt worden. Een overzicht van de blootstellingsparameters kunt u vinden in RIVM rapport 2020-0165 (van Breemen et. al.)

Wanneer u de blootstellingsparameters aan wilt passen is het verstandig om eerst een bodemfunctie in stap 3 te kiezen en in stap 5 de niet relevante

blootstellingsroutes uit te zetten. Vervolgens kunt u in dit formulier de blootstellingsparameters voor de gekozen bodemfunctie aanpassen.

Zorg ervoor dat u na rekenen het model reset, anders blijven de aangebrachte veranderingen staan voor toekomstige berekeningen

Voorbeeld: U wilt een variant maken op 'Wonen met tuin' waarbij kinderen 5% van hun totale gewas consumptie uit eigen tuin eten, en volwassene 15%. Dit gaat dan als volgt:

1. Kies de bodemfuntie 'Wonen met tuin' (stap 3).
2. Alle blootstellingsroutes blijven relevant dus hier zijn geen aanpassingen nodig.
3. Verander de blootstellingsparameters voor de fractie gewasconsumptie (aardappel en overig) voor kind naar 0,05 en voor volwassene naar 0,15.
4. Reken met deze aanpassingen en Reset het model na afloop.

BCF staat voor Bio Concentratie Factor. Deze factor geeft de verhuiding aan tussen de concentratie van een stof in de plant en in de bodem. Voor de meeste metalen wordt een vaste BCF gehanteerd. Dat wil zeggen: De BCF is niet afhankelijk van de bodemconcentratie.

Voor lood en cadmium is het mogelijk om een BCF te berekenen die wel afhankelijk is van de bodemconcentratie. In het CSOIL 2020 model wordt deze optie als standaard gebruikt voor lood en cadmium.

Meer informatie kunt u vinden in het CSOIL 2020 rapport (5.1, 2, e et al, 2020)
Bij het aanpassen van stofparameters dient met de volgende zaken rekening gehouden te worden:

1. Een risico-index wordt bepaald m.b.v. zowel een MTR als een TCL. Wanneer u bijvoorbeeld enkel de MTR aanpast, zal voor de inhalatoire routes nog steeds met de originele TCL gerekend worden.

2. Het aanpassen van stofeigenschappen blijft van kracht totdat het model gereset wordt. Dit betekent dat wanneer u een andere stof selecteerd zonder het model te resetten, voor de nieuwe stof de nog aangepaste parameters blijven gelden. Reset daarom altijd het model voordat u opnieuw stofparameters aanpast.

<h1>image1.emf</h1>
Naar het model

Naar het model

<h1>image5.emf</h1>
Bereken met aangepaste stofparameters

Bereken met aangepaste stofparameters

<h1>image6.emf</h1>

Dit is een aangepaste versie van het CSOIL 2020 model. Voor

de orginele versie ga naar: www.RIVM.nl/xxxx

Dit is een aangepaste versie van het CSOIL 2020 model. Voor

de orginele versie ga naar: www.RIVM.nl/xxxx

<h1>image7.emf</h1>
Aanpassen locatie- en bodemparameters

Aanpassen locatie- en bodemparameters

<h1>image8.emf</h1>

<h1>image9.emf</h1>

<h1>image10.emf</h1>

<h1>image11.emf</h1>

<h1>image12.emf</h1>

<h1>image13.emf</h1>

<h1>image14.emf</h1>

<h1>image15.emf</h1>

<h1>image16.emf</h1>

<h1>image17.emf</h1>
Start berekening

```
<p>Start berekening</p>

</div>
<div class="package-entry"><h1>image18.emf</h1>
<div class="package-entry"><p>Reset stoffen</p>


</div>

<p>Reset stoffen</p>

</div>
<div class="package-entry"><h1>image19.emf</h1>
<div class="package-entry" />

</div>
<div class="package-entry"><h1>image20.emf</h1>
<div class="package-entry"><p>Kies een stof</p>


</div>

<p>Kies een stof</p>

</div>
<div class="package-entry"><h1>image21.emf</h1>
<div class="package-entry" />

</div>
<div class="package-entry"><h1>image22.emf</h1>
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</div>
<div class="package-entry"><h1>image23.emf</h1>
<div class="package-entry" />

</div>
<div class="package-entry"><h1>image24.emf</h1>
<div class="package-entry"><p>Blootstellingsroutes wijzigen</p>


</div>

<p>Blootstellingsroutes wijzigen</p>

</div>
<div class="package-entry"><h1>image2.emf</h1>
<div class="package-entry"><p>Stof verwijderen</p>


</div>

<p>Stof verwijderen</p>

</div>
<div class="package-entry"><h1>image25.emf</h1>
<div class="package-entry"><p>Reset model</p>


</div>

<p>Reset model</p>
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</div>
<div class="package-entry"><h1>image26.emf</h1>
<div class="package-entry" />

</div>
<div class="package-entry"><h1>image27.emf</h1>
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<div class="package-entry"><h1>image28.emf</h1>
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<div class="package-entry"><h1>image29.emf</h1>
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</div>
<div class="package-entry"><h1>image30.emf</h1>
<div class="package-entry"><p>Aanpassen parameters blootstellingscenario</p>


</div>

<p>Aanpassen parameters blootstellingscenario</p>

</div>
<div class="package-entry"><h1>image31.emf</h1>
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<div class="package-entry"><h1>image32.emf</h1>
<div class="package-entry"><p>NL</p>


</div>

<p>NL</p>

</div>
<div class="package-entry"><h1>image33.emf</h1>
<div class="package-entry"><p>EN</p>


</div>

<p>EN</p>

</div>
<div class="package-entry"><h1>image3.emf</h1>
<div class="package-entry"><p>Stof toevoegen</p>


</div>

<p>Stof toevoegen</p>

</div>
<div class="package-entry"><h1>image4.emf</h1>
<div class="package-entry" />

</div>
<div class="package-entry"><h1>image34.png</h1>
</div>
<div class="package-entry"><h1>image37.emf</h1>
```

<h1>image38.emf</h1>
Reset model

Reset model

<h1>image39.emf</h1>
Risicowaarde bodem

Risicowaarde bodem

<h1>image40.emf</h1>
Risicowaarde grondwater

Risicowaarde grondwater

<h1>image35.emf</h1>
Terug naar Start

Terug naar Start

<h1>image36.emf</h1>

<h1>image41.emf</h1>
Blootstellingroutes

Ingestie grondDermale opn. binnenDermale opn. buitenInhalatie grondInhalatie binnenluchtInhalatie buitenluchtIngestie gewasPermeatie drinkw.Dampen douchenDerm. opn. douchen

Wonen met tuin;jajajajajajajajajaja

Plaatsen waar kinderen spelen;jajajajajajaneejajaja

Moestuinen en volkstuinen;jajajajajajajajajaja

Landbouw;jajajajajajajajajaja

Natuur;janeejajaneejaneejajaja

Groen met natuurwaarden;janeejajaneejaneejajaja

Ander groen, bebouwing, infrastructuur en industrie;jajajajajajaneejajaja

<h1>image42.png</h1>

<h1>image43.png</h1>

<h1>image44.png</h1>

<h1>image45.png</h1>

<h1>image46.png</h1>

<h1>image47.png</h1>

<h1>image48.png</h1>

</body></html>