

Supplementary Materials: Exploring Global Exposure Factors Resources for Use in Consumer Exposure Assessments

Rosemary T. Zaleski, Peter P. Egeghy and Pertti J. Hakkinen

Table S1. Compilation of Cited Hyperlinks. (Organizations can make changes to hyperlinks and an online search for an updated link is suggested if a hyperlink appears to be broken).

RESOURCE	URL
ACI (American Cleaning Institute)	http://www.cleaninginstitute.org/science.aspx
ACI Consumer Product Ingredient Safety: Exposure and Risk Screening Methods for Consumer Product Ingredients	http://www.aciscience.org/docs/Consumer_Product_Ingredient_Safety_v2.0.pdf
AISE (International Association for Soaps, Detergents and Maintenance Products)	http://www.aise.eu/
AISE/FEA Specific Consumer Exposure Determinants (SCEDS)	https://www.aise.eu/documents/document/20150602150536-aise_sceds_factsheets_may2015_v1.pdf
AISE REACT (Reach Exposure Assessment Consumer Tool)	http://www.aise.eu/our-activities/product-safety-and-innovation/reach/consumer-safety-exposure-assessment.aspx
American Housing Survey	http://www.census.gov/programs-surveys/ahs.html
American Time Use Survey	http://www.bls.gov/tus/
Australian Environmental Health (enHealth) Standing Committee	http://www.health.gov.au/internet/main/publishing.nsf/Content/ohp-environ-enhealth-committee.htm
Australian (enHealth) Exposure Factor Guide	http://www.health.gov.au/internet/main/publishing.nsf/Content/health-pubhlth-publicat-envIRON.htm
Australian (enHealth) Environmental Health Risk Assessment Guidelines	http://www.health.gov.au/internet/main/publishing.nsf/Content/A12B57E41EC9F326CA257BF0001F9E7D/\$File/DoHA-EHRA-120910.pdf
Canadian Exposure Factors Handbook	http://www.usask.ca/toxicology/docs/cef
Chinese Exposure Factors Handbook – Adults (Highlights)	https://books.google.com/books?id=wrZ7BgAAQBAJ&source=gbs_navlinks_s
CONCAWE Consumer Refueling Behaviors for both Vehicles and Garden Equipment	https://www.concawe.eu/uploads/Modules/Publications/rpt_12-11-2013-00130-01-e.pdf
CONCAWE Specific Consumer Exposure Determinants (SCEDS) Documents	https://www.concawe.eu/reach/specific-consumer-exposure-determinants-sceds-documents
Cosmetic Ingredient Review (of the Personal Care Products Council)	http://www.cir-safety.org/
Cosmetics Europe (Cosmetics and Personal Care Industry Trade Group)	https://www.cosmeticseurope.eu/
CPSC (Consumer Product Safety Commission) Homepage	http://www.cpsc.gov/
CPSC Age Determination Guidelines: Relating Children's Ages to Toy Characteristics and Play Behavior	http://www.cpsc.gov/PageFiles/112234/adg.pdf
DUCC (Downstream Users of Chemicals Co-ordination group) SCEDs guidance	http://www.ducc.eu/documents/20140424-Guidance documents on SCEDs-Final-V1.pdf
ECETOC (European Center for Ecotoxicology and Toxicology of Chemicals) Homepage	http://www.ecetoc.org/
ECETOC Exposure Factors Sourcebook for European Populations (with focus on UK data)	http://www.ecetoc.org/technical-reports
ECETOC Targeted Risk Assessment Tool (TRA)	http://www.ecetoc.org/tra
ECHA (European Chemicals Agency) Homepage	http://echa.europa.eu/
ECHA CheSAR (Chemical Safety Assessment and Reporting tool)	https://chesar.echa.europa.eu/
ECHA Exposure Scenario for Chemical Safety Report and Communication; Example: Consumer Cleaning Products	http://echa.europa.eu/documents/10162/13564/es_for_consumer_20110829_en.pdf

Table S1. Cont.

RESOURCE	URL
ECHA Guidance Chapter R. 15: Consumer Exposure Estimation	http://echa.europa.eu/documents/10162/13632/information_requirements_r15_en.pdf
ECHA Guidance Chapter R. 17: Estimation of Exposure from Articles	http://echa.europa.eu/documents/10162/13632/information_requirements_r17_en.pdf
ECHA Guidance on Information Requirements and Chemical Safety Assessment	http://guidance.echa.europa.eu/
ESIG (European Solvent Industry Group)	http://www.esig.org/en/regulatory-information/reach/ges-library/consumer-gess
E.U. ExpoFacts Database	http://expofacts.jrc.ec.europa.eu/
HERA Human and Environmental Risk Assessment on ingredients of household cleaning products	http://www.heraproject.com/
HERA Methodology of Risk Assessment	http://www.heraproject.com/files/HERA_TGD_February_2005.pdf
HESI Residential Exposure Factors database	http://hesiglobal.org/hesi-residential-exposure-factors-database/
ICRP Report of the Task Group on Reference Man	http://www.icrp.org/publication.asp?id=ICRP%20Publication%2023
ISES (International Society of Exposure Science) Homepage	http://www.isesweb.org/
Japanese Exposure Factors Handbook	https://unit.aist.go.jp/riss/crm/exposurefactors/english_summary.html
Korean Exposure Factors Handbook	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3930810/
Multinational Time Use Research Database	http://www.timeuse.org/mtus/database
NIH (National Institutes of Health) Household Products Database	http://householdproducts.nlm.nih.gov/
NIST (National Institute of Standards and Technology) Homepage	http://www.nist.gov/
NIST CONTAM model input library files	http://www.bfrl.nist.gov/IAQanalysis/CONTAM/libraries.htm
NIST CONTAM multizone indoor air quality model	http://www.nist.gov/el/building_environment/contam_software.cfm
Nordic Council of Ministers Existing Default Values and Recommendations for Exposure Assessment	http://orbit.dtu.dk/services/downloadRegister/52688829/Exposure_rapport.pdf
OECD Assessment of Chemicals Reports	http://www.oecd-ilibrary.org/environment/oecd-series-on-testing-and-assessment_20777876
OECD Guidance Document on Reporting Summary Information on Environmental, Occupational and Consumer Exposure	http://www.oecd-ilibrary.org/docserver/download/9750421e.pdf
Personal Care Products Council	http://www.personalcarecouncil.org/
RIVM (Dutch National Institute for Public Health and the Environment) Homepage	http://www.rivm.nl/
RIVM ConsExpo Software	http://www.rivm.nl/en/Documents_and_publications/Scientific/Models/Download_page_for_ConsExpo_software
RIVM Fact Sheets Homepage	http://www.rivm.nl/en/Topics/C/ConsExpo/Fact_sheets
RIVM ConsExpo General Fact Sheet	http://www.rivm.nl/dsresource?objectid=rivmp:266571&type=org&disposition=inline&ns_nc=1
RIVM Children's Toys Fact Sheet	http://www.rivm.nl/en/Search/Library?query=toy+fact+sheet
RIVM Cleaning Products Fact Sheet	http://www.rivm.nl/en/Documents_and_publications/Scientific/Reports/2006/augustus/Cleaning_Products_Fact_Sheet_To_assess_the_risks_for_the_consumer
RIVM Cosmetics Fact Sheet	http://www.rivm.nl/en/Documents_and_publications/Scientific/Reports/2006/augustus/Cosmetics_Fact_Sheet_To_assess_the_risks_for_the_consumer_Updated_version_for_ConsExpo_4
RIVM Disinfectant Products Fact Sheet	http://www.rivm.nl/en/Documents_and_publications/Scientific/Reports/2006/augustus/Disinfectant_Products_Fact_Sheet_To_assess_the_risks_for_the_consumer
RIVM Do-It-Yourself Products Fact Sheet	http://www.rivm.nl/Documenten_en_publicaties/Wetenschappelijk/Rapporten/2007/juli/Do_It_Yourself_Products_Fact_Sheet_To_assess_the_risks_for_the_consumer

Table S1. Cont.

RESOURCE	URL
RIVM Paint Products Fact Sheet	http://www.rivm.nl/en/Documents_and_publications/Scientific/Reports/2007/augustus/Paint_Products_Fact_Sheet_To_assess_the_risks_for_the_consumer_Updated_version_for_ConsExpo_4
RIVM Pest Control Products Fact Sheet	http://www.rivm.nl/en/Documents_and_publications/Scientific/Reports/2006/augustus/Pest_Control_Products_Fact_Sheet_To_assess_the_risks_for_the_consumer_Updated_version_for_ConsExpo_4
RIVM Hygienic Cleaning Products Used in the Kitchen: Exposure and Risks	http://www.rivm.nl/en/Documents_and_publications/Scientific/Reports/1999/oktober/Hygienic_Cleaning_Products_used_in_the_kitchen_Exposure_and_risks
SCCS (Scientific Committee on Consumer Safety) Notes of Guidance for the Testing of Cosmetic Substances and their Safety Evaluation 8th Revision.	http://ec.europa.eu/health/scientific_committees/consumer_safety/docs/sccs_s_006.pdf
Society for Risk Analysis (SRA) Homepage	http://www.sra.org/
SRA/ISEA Residential Exposure Assessment Sourcebook	http://books.google.com/books?id=dz6EvMSx0QIC&printsec=fro ntcover
SUPERB (Study of Use of Products and Exposure-Related Behavior)	http://superb.ucdavis.edu/content-publications.html
U.S. Census Bureau Homepage	http://www.census.gov/en.html
U.S. Consumer Product Safety Commission Homepage	http://www.cpsc.gov/
U.S. Energy Information Administration (U.S. EIA) Homepage	http://www.eia.gov/
U.S. EIA Residential Energy Consumption Survey	http://www.eia.gov/consumption/residential/
USEPA and ILSI Databases for Physiological Parameters for PBPK Modeling	http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=202847
USEPA Office of Chemical Safety and Pollution Prevention (OCSPP) Homepage	https://www.epa.gov/aboutepa/about-office-chemical-safety-and-pollution-prevention-ocspp
USEPA Exposure Factors Program home page	http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=20563
USEPA Exposure Factors Handbook (2011 Edition)	https://www.epa.gov/expobox/about-exposure-factors-handbook
USEPA Child Specific Exposure Factors Handbook	http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=199243
USEPA Example Exposure Scenarios	http://ofmpub.epa.gov/eims/eimscomm.getfile?p_download_id=435481
USEPA Child-Specific Exposure Scenarios Examples	http://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=262211
USEPA Data Sources for Modeling Environmental Exposures in Older Adults	https://cfpub.epa.gov/si/si_public_file_download.cfm?p_downlo ad_id=508404
USEPA Consolidated Human Activity Database	https://www.epa.gov/healthresearch/consolidated-human-activit y-database-chad-use-human-exposure-and-health-studies-and
USEPA Exposure and Fate Assessment Screening Tool	https://www.epa.gov/tsca-screening-tools/e-fast-exposure-and-fa te-assessment-screening-tool-version-2014
USEPA Residential Exposure Assessment (REx) Model	https://archive.epa.gov/scipoly/sap/meetings/web/html/092600_ mtg.html
USEPA Office of Pesticide Programs website	http://www.epa.gov/pesticides/
USEPA Standard Operating Procedures for Residential Pesticide Exposure Assessment (Residential SOPs)	https://www.epa.gov/pesticide-science-and-assessing-pesticide-r isks/standard-operating-procedures-residential-pesticide
USEPA ExpoCast Publications	http://cfpub.epa.gov/si/si_lab_search_results.cfm?fed_org_id=12 67&SITYPE=PR&TIMSType=Journal&showCriteria=0&address=n cct%2Fpublications.html&view=citation&sortBy=pubDateYear& keyword=ExpoCast
USEPA Village Green project	https://www.epa.gov/air-research/village-green-project
Westat National Household Solvent Survey	http://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=P100754Q.TXT

