

On-line resources to support identifying Safer Chemical Alternatives

- ❖ Substitution website of ECHA: <https://www.echa.europa.eu/substitution-to-safer-chemicals>

Since 2018, the EU chemical agency (ECHA) supports industry in the identification of safer chemicals across supply chains. This includes the organisation of dedicated workshops, networking, collection of successful case studies and the dissemination of information about chemicals to the large public.

- ❖ ChemSec Marketplace: <https://marketplace.chemsec.org/>

Gathers all green chemistry innovations in one place, making it easier for companies to choose safer solutions. Search advertisements of safer alternatives and connect with suppliers. Find solutions that fit your needs.

- ❖ OECD Substitution and Alternatives Assessment Toolbox:
<http://www.oecdsatoolbox.org/Home/CaseStudies>

Case studies of alternatives assessed by manufacturers, academic institutions, NGOs and government bodies. The search feature can be used to identify case studies of greatest relevance to your substitution or alternatives assessment goals.

- ❖ My Chemical Monitoring: <https://chemycal.com/>

A database to help screen alternatives based on regulatory actions or anticipated regulatory changes. This is a fee-based subscription database.

- ❖ Pharos: <https://pharosproject.net/>

A tool to help identify problematic chemicals and collaborate to find safer alternatives. Search by chemical or functional use and view hazard assessments that have been made publicly available whether:

- 1) the chemical is restricted and/or managed by regulatory or corporate policy or subject to voluntary program guidance;
- 2) the chemical is on an exempt from regulatory actions list or are preferable for use for certain applications based upon an assessment of lower hazard.

- ❖ Substitution Support Portal (SUBSPORTplus): <https://www.subsportplus.eu/>

Provides free text search function to find information on alternatives substituted for a limited number of chemicals of concern in specific applications.

- ❖ U.S. Environmental Protection Agency's Safer Chemical Ingredients List:
<https://www.epa.gov/saferchoice/safer-ingredients>

The Safer Chemical Ingredients List (SCIL) is a list of chemical ingredients, arranged by functional use class (e.g., chelating agents, solvents, surfactants, etc.,) that the U.S. Environmental Protection Agency's Safer Choice Program has evaluated and determined to be safer than traditional chemical ingredients.

- ❖ WIPO GREEN: <https://www3.wipo.int/wipogreen/en/>

WIPO (World Intellectual Property Organisation) GREEN, an interactive marketplace that connects technology and service providers with those seeking innovative solutions. It consists in an online database and network that brings together a wide range of players in the green technology innovation value chain, and connects owners of new technologies with individuals or companies who might be looking to commercialize, license or otherwise distribute a green technology.

Other Resources that may be helpful:

- REACH registration dossier database <https://echa.europa.eu/information-on-chemicals>
- Classification and Labelling inventory database <https://www.echa.europa.eu/information-on-chemicals/cl-inventory-database>
- TURI Environmental, Health and Safety Data Resources guide <https://www.turi.org/About/Library>
https://www.turi.org/Our_Work/Research/Alternatives_Assessment/TURI_Alternative_Assessments
- Safety Data Sheets and Technical Product Bulletins
- Tools to identify possible alternatives for some particular chemicals
 - Hansen Solubility Parameters in Practice (HSPiP) software: <https://hansen-solubility.com/>