



HOW CAN CHEMSEC TOOLS SUPPORT COMPANIES?

WHAT WE DO AT CHEMSEC

- Drive the political discussion on hazardous chemicals
- Challenge companies to improve their chemicals management
- Develop online tools to help companies switch to safer chemicals
- Inform investors about risks and opportunities in the chemical industry





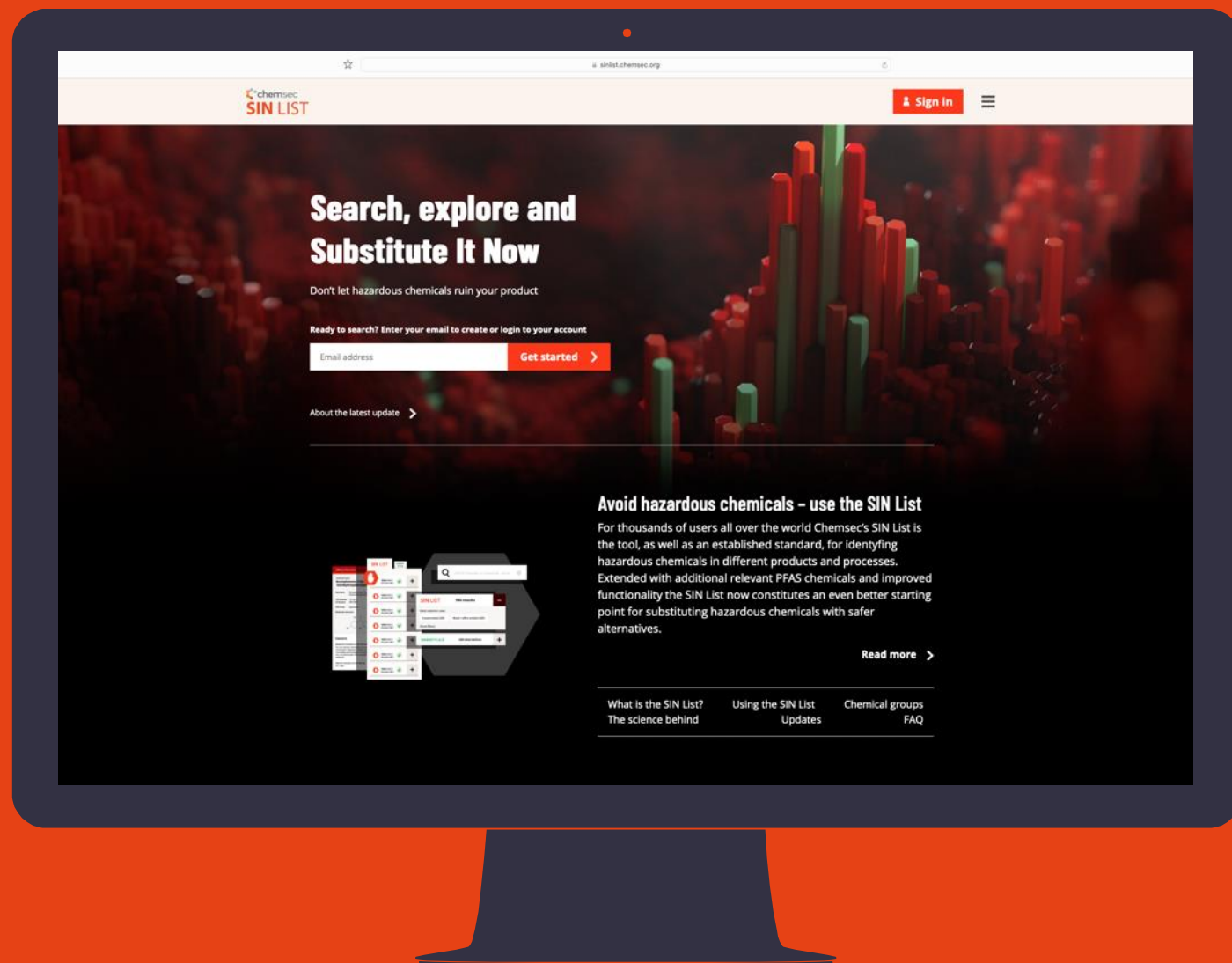
AIM OF THE CHEMSEC TOOLS

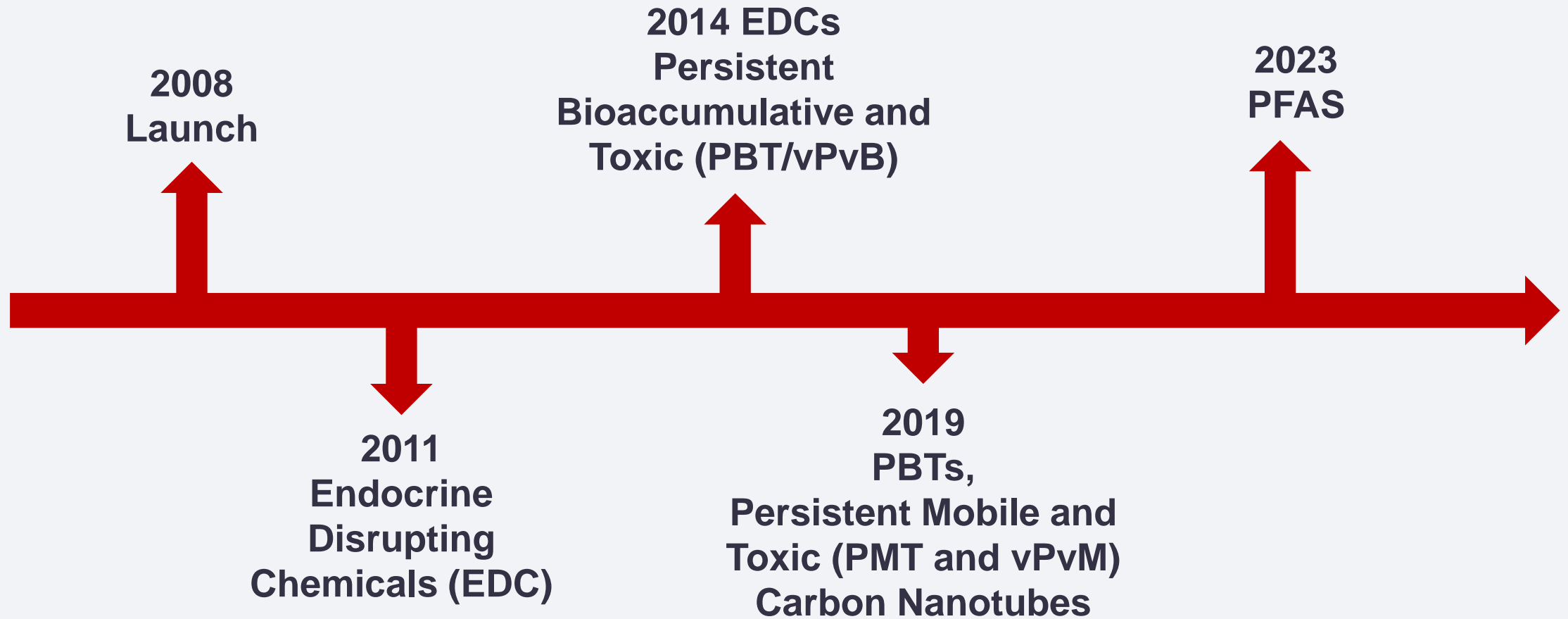
- Support companies in substitution
- Be relevant and ahead of regulation
- Provide insights to future-proofing businesses
- Freely accessible
- Provide foundation for our investor and policy work



Substitute It Now!

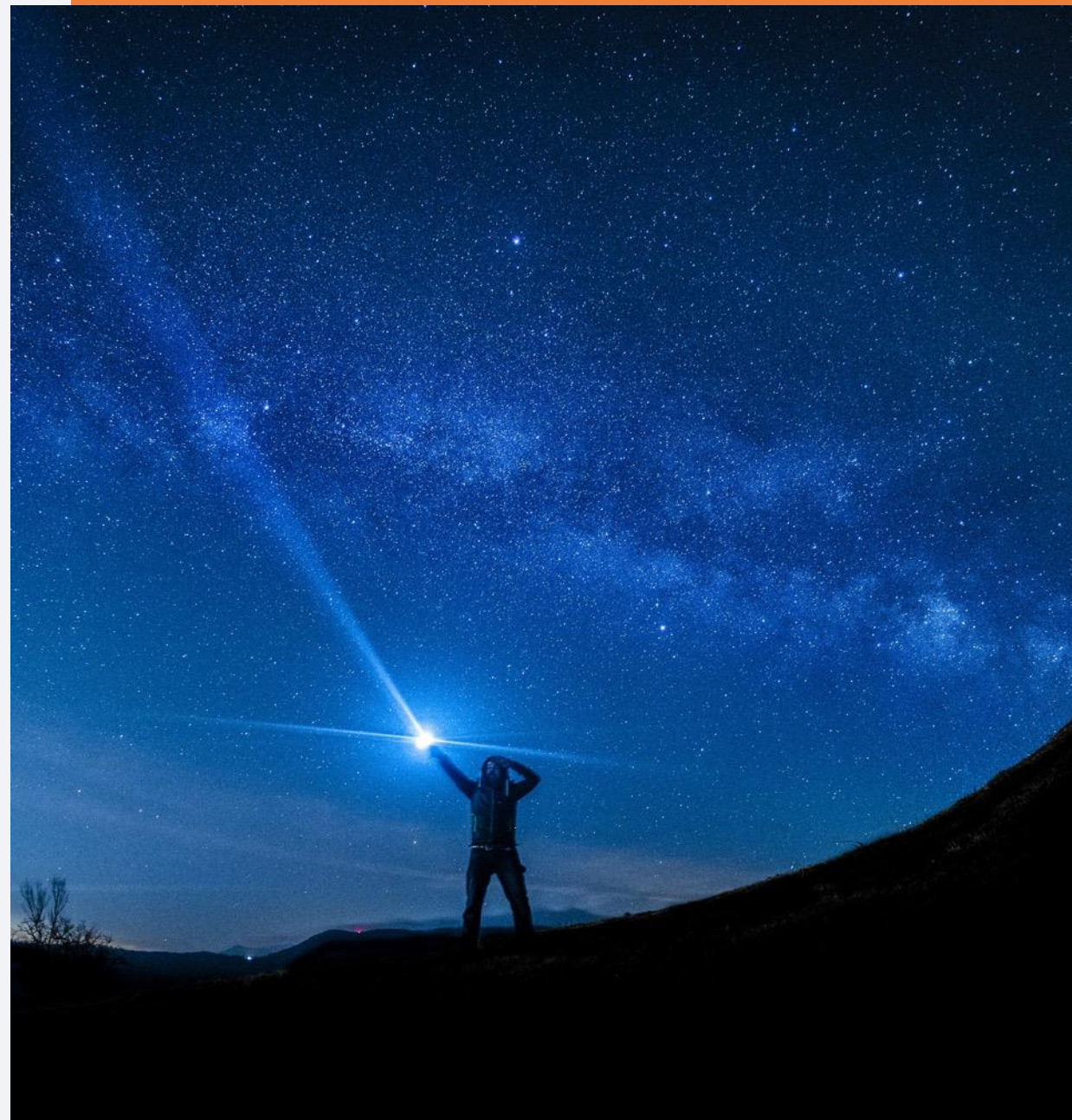
A database of substances fulfilling criteria for regulation.





NARROWING DOWN THE PFAS UNIVERSE

- OECD 2017: 4,730 substances
- PFAS restriction – 10,000 substances
- PubChem Tree: More than 6 million
- SIN List: 416 PFAS (370 new)
- Which substances are most likely used in processes and products?
- Focus on substances registered in the EU and US and manually checking for uses





SIN LIST USERS

- 40 000 visitors in one year
- 9 000 users with login accounts
- Most users from USA, Germany, Sweden, UK, France and China
- Users from companies in all parts of the supply chain and consultants
- Users from governments, academia, the investment community, standards and ecolabels

SIN LIST search

Filter



Health and environmental concerns ⓘ +

Uses ⓘ +

Date added to the SIN List ⓘ +

REACH status ⓘ +

SIN group ⓘ -

PFAS (416) ×

pfas ×

Toxic metals and metalloids (269)

Petroleum (240)

Nitrogen compounds (152)

Search tips

Search results

[View full list](#) [SIN List Excel](#)

SIN LIST
416 substances

MARKETPLACE
61 alternatives

Most common uses:

Others (807) Paints & pigments (473) Plastics & rubber (412)

[Go to Marketplace](#)

SIN LIST

MARKETPLACE

[Print](#) [Result Excel](#) [Share](#)

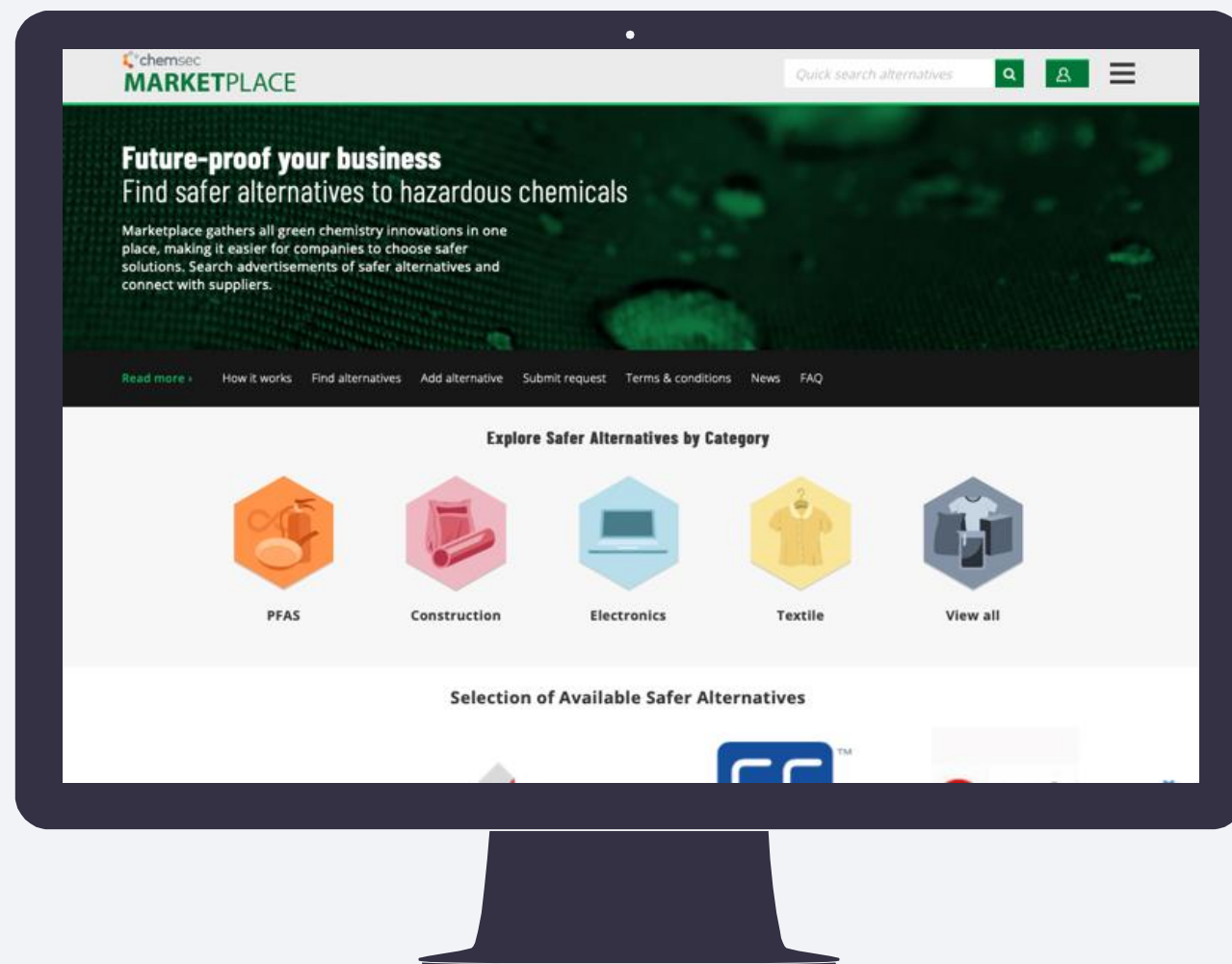
416 substances

Alternative on



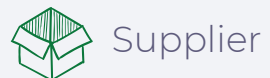
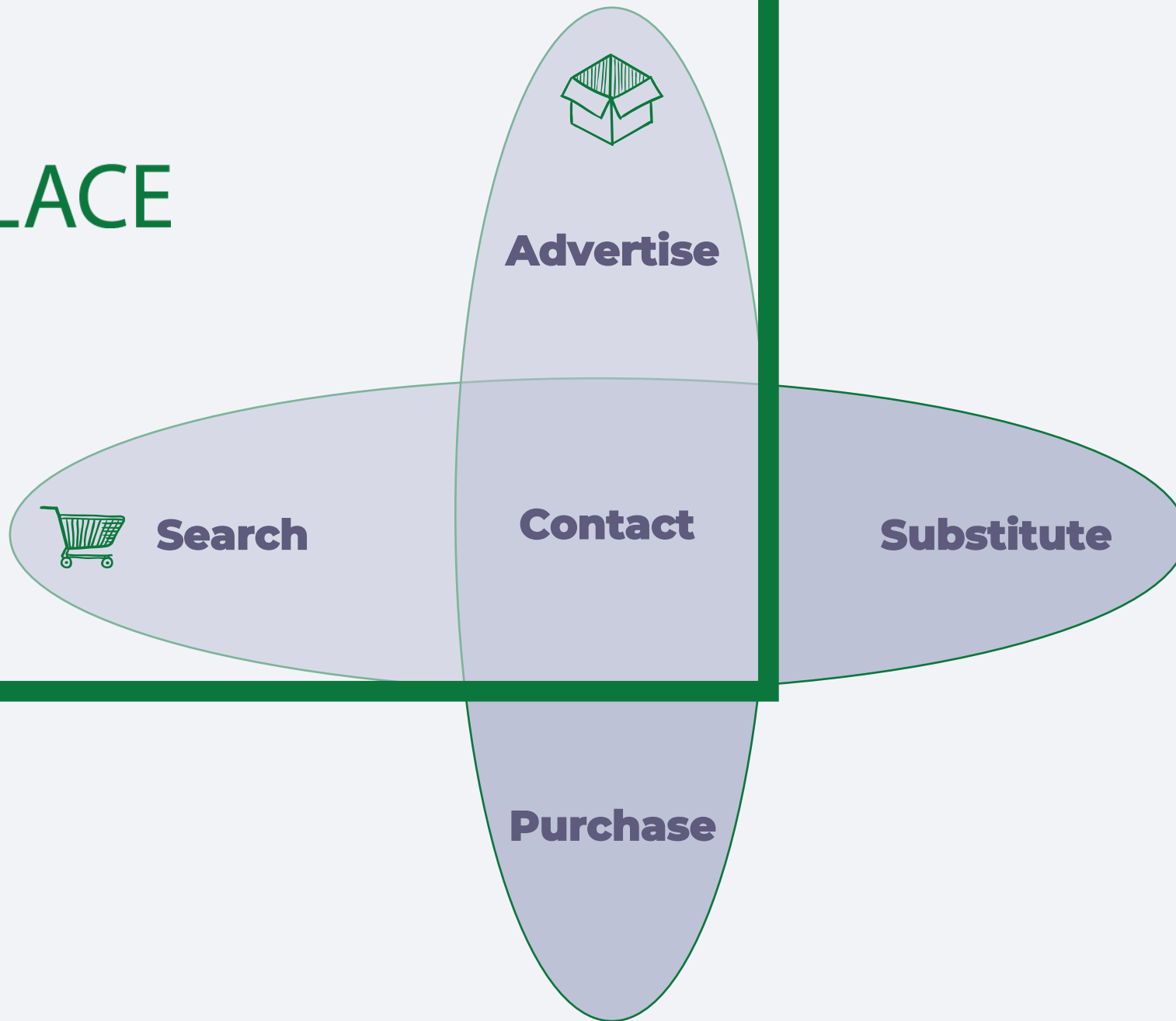
MARKETPLACE

A B2B platform to connect providers of **safer alternatives** with potential buyers





MARKETPLACE





WHAT IS AN ALTERNATIVE?

Marketplace welcomes:

- Drop-in substitutes
- Technological solutions
- New processes and materials

Identification of functionality important!



ALTERNATIVES

- Description of function and use
- Replacement info
- Third party verification and standards
- Contact supplier directly

Mesamoll® - non-phthalate plasticizer

EVALUATED ALTERNATIVE *What is an alternative/evaluated alternative?*

Summary

Mesamoll® is a general purpose plasticizer, with good gelling behaviour and saponification resistance, which is compatible with many types of polymers including poly vinyl chloride and polyurethanes.

Description

Mesamoll® is a general purpose plasticizer, with good gelling behaviour and saponification resistance, which is compatible with many types of polymers including poly vinyl chloride and polyurethanes.

It is characterised by

- outstanding gelling capacity with a large number of polymers including PVC and polyurethanes, resulting in lower processing temperatures and shorter processing times
- high saponification resistance, especially beneficial for articles which come into contact with water and alkalis.
- good compatibility with a large number of polymers such as polyurethane (PU), polyvinyl chloride (PVC), natural rubber (NR), styrene-butadiene rubber (SBR), blends of styrene-butadiene rubber and butadiene rubber (SBR/BR), isobutylene-isoprene rubber (IIR), acrylonitrile-butadiene rubber (NBR) and chloroprene rubber (CR)
- outstanding resistance to weathering and light
- good dielectric properties which give plasticised PVC outstanding weldability at high frequencies leading to shorter cycle times than with other plasticisers

Possible replacement to

Plasticizers, e.g. DINP, DOTP, DIDP

LANXESS

Energiz

Supplier

LANXESS Deutsch
GmbH

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Contact

Teresa Bernheim

[Contact Sup](#)

Technical Function

» [Plasticizer](#)

Sector of Use

» [Manufacture of plastic](#)
including compounding

» [Manufacture of rubber](#)

» [Manufacture of textile](#)

Material Article Catego

» [Fabrics, textiles and a](#)

» [Other](#)

» [Plastic articles](#)

» [Rubber articles](#)

Documents:

[Mesamoll.pdf](#)

[Mesamoll_SDS_US_E](#)

[Comment or report this](#)



MARKETPLACE USERS

- 690 alternatives
- 50 000 visitors over 2023
- Most visitors from
 - USA
 - China
 - Germany
 - India
 - UK
- 8,000 pageviews on ads per month
- 2 contacts made per day

MARKETPLACE & PFAS

- Special section for alternatives to PFAS
- Around 100 alternatives today
- Focus during 2024
- Important focus
 - Health & environmental crisis
 - Legislative pressure

Future-proof your business

Find safer alternatives to hazardous chemicals

Marketplace 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.

[Read more >](#)

[How it works](#)

[Find alternatives](#)

[Add alternative](#)

[Submit request](#)

[Terms](#)

Explore Safer Alternatives



PFAS



Construction



Electronics

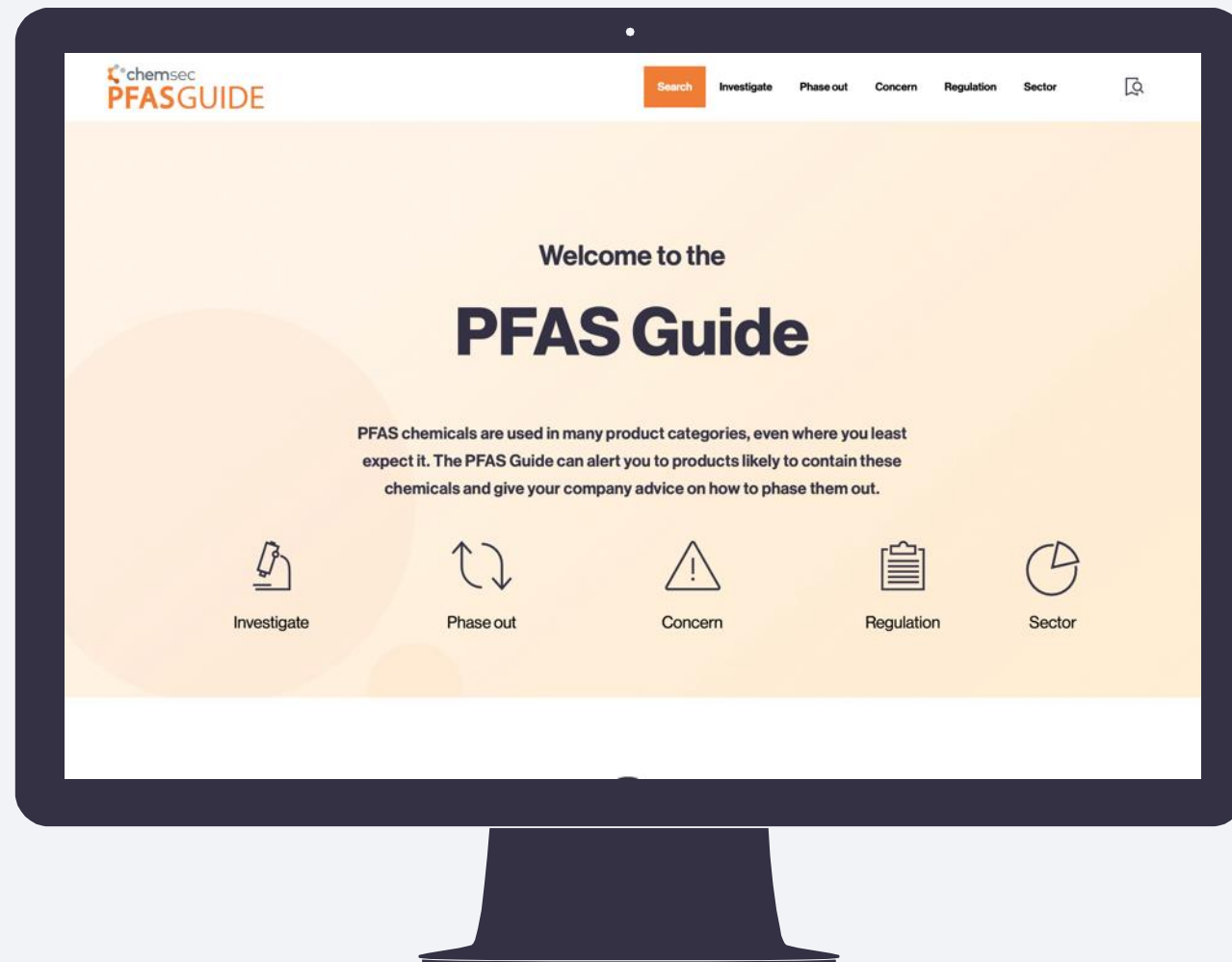
PFAS GUIDE

Aims to support companies in understanding

- if
- where
- why

PFAS is used in their organisation

--> facilitating the first step in PFAS phase-outs



INFORMATION PART

- Typical PFAS uses, supply chain communication and chemical analysis
- Substitution as a phase-out method. Find, evaluate and compare alternatives
- What are the problems with PFAS? PFAS and human health
- Regulation in the EU and the US
- Links to sector-specific reports



Investigate

This chapter will teach you about typical “red flags” indicating that PFAS could be in a product. You will also find suggestions on how to communicate about PFAS in the supply chain and what to do if you do not get the answers you need from your suppliers, or want to verify them.



Phase out

To phase out PFAS you need to find a way to achieve the same functionality without them. The most straightforward approach is to simply replace one chemical with a safer one. But this can be tricky. Other ways include changing materials, technologies or production processes.



Concern

PFAS continue to be used on a broad scale despite their adverse health effects, linking them to issues such as cancers and infertility. Since these “forever chemicals” do not degrade, they are now found all over the planet in our environment and in the blood of every single human being.



Regulation

It has taken some time, but regulation is now finally stepping up to address this vast and problematic family of chemicals. A comprehensive PFAS ban is expected in the European Union within the coming years and a range of regulatory actions are in the pipeline in other regions as well.



Sector

Many industries use PFAS in some way or another for a variety of functions and purposes. These uses can be hard to find at a first glance. In this part of the guide, we publish reports with information on PFAS use and substitution with relevance for specific industry sectors.

Are there PFAS chemicals in your product?

Sector ? **Use / Product** ?

Material **Function**

[Search](#) [Clear all filters](#)

Possible PFAS hotspots

Based on your selection

Use

- Professional apparel
- Textile finishing - dyeing with sulphur dyes
- Curtains and blinds
- (Sailing) boat equipment - textiles for maritime applications
- Golf gloves
- Non-woven acoustic insulation textiles
- Consumer apparel and accessories - breathable membranes
- Technical textiles
- Outdoor technical textiles - canvas, awnings, tarps, tents, sails, rope etc
- Personal protection equipment
- Carpets and rugs
- Home textiles
- Textile finishing - dyeing and bleaching
- Carpet and upholstery cleaner
- Impregnation spray for textiles
- Textile finishing
- Textile finishing - fibre finishes
- Footwear
- Textile-based coverings - tablecloths, beddings etc
- Textile finishing - dye transfer

Read more

30 results

[Download Excel](#) [Share link](#) [Remember search](#)

Sector	Use/Product	Function	Material
> Textile, apparel and upholstery	Professional apparel	Water and oil repellence	Textile
> Textile, apparel and upholstery	Textile finishing - dyeing with sulphur dyes	Anti-foaming agent	Textile
> Textile, apparel and upholstery	Curtains and blinds	Water and oil repellence	Textile
> Textile, apparel and upholstery	(Sailing) boat equipment - textiles for maritime applications	Water and oil repellence	Textile

DATABASE PART

- Incorporates information from scientific publications, reports and information from individual companies
- Links to the SIN List and Marketplace
- Links to reports on alternatives
- Let it be a growing source of information!
- pfasguide@chemsec.org

PFAS GUIDE USERS

- 23,000 users during 2023 (launched in Feb)
- Most common countries
 - Germany
 - USA
 - Sweden
 - Italy
 - France
- Living database – more information needed!



ChemSec TOOLS FOR PFAS PHASEOUT

1

 chemsec

PFASGUIDE

If, where and why you have PFAS in your products

2

 chemsec

SIN LIST

The PFAS chemicals most likely found in products

3

 chemsec

MARKETPLACE

The safer alternatives

THANK YOU.

IMPORTANT LINKS

- Website: chemsec.org
- The SIN list: sinlist.chemsec.org
- ChemSec Marketplace: marketplace.chemsec.org
- PFAS guide: pfas.chemsec.org
- ChemSec webinars: [youtube](#)
- Newsletter: [Sign-up page](#)
- LinkedIn: [ChemSec](#)





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