

Introduction to authorisation and how can ECHA support substitution

Sustainable substitution of SVHCs: how to move forward?

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Outline

- Overview of the authorisation process
- To prepare or not to prepare an application
- Support
- Strategy to support innovation to safer chemicals through innovation
- Take home messages

Overview of the authorisation process





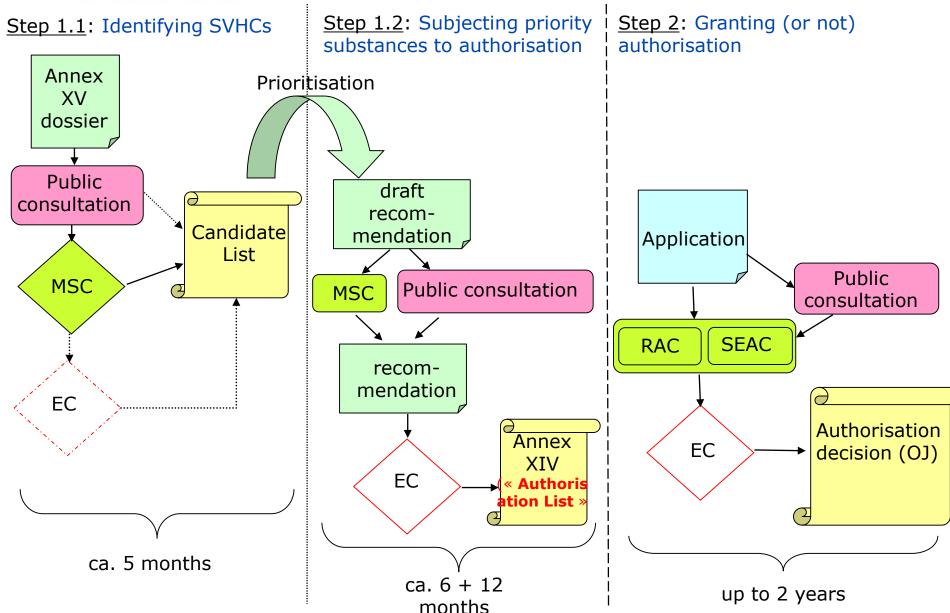
Authorisation

Aim is to ensure that:

- the risks from substances of very high concern are properly controlled and
- that these substances are <u>progressively</u> <u>substituted by alternative substances or</u> <u>technologies</u>
- where these are economically and technically viable whilst
- ensuring the good functioning of the internal market



ECHA Authorisation: Overall procedure





Authorisation and substitution

- Candidate List of substances of very high concern (SHVC): strong signal for substitution and legal obligations
- Authorisation list (Annex XIV): second signal
- Allows companies to apply for an authorisation for a continued (or new) use of an SVHC
- AfA*: requires analysis of alternatives
- Public consultation on alternatives + 'trialogue'
- Subject to time-limited review → pressure to substitute



Content of an application

Risk, alternatives, (socio-economic) components

Adequate control
not demonstrated
and
no suitable alternative

Adequate control demonstrated and no suitable alternative

Adequate control demonstrated and suitable alternative exists



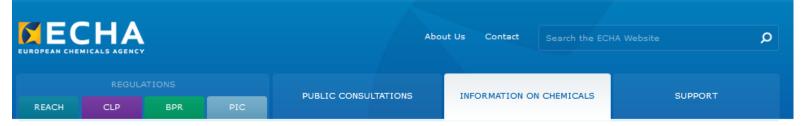




Chemical Safety Report Analysis of Alternatives Socio-economic Analysis Chemical Safety Report Analysis of Alternatives Socio-economic Analysis* Chemical Safety Report
Analysis of Alternatives
Substitution Plan
Socio-economic Analysis**

^{*} highly recommended

^{**} recommended



ECHA > Information on Chemicals > Candidate List

Candidate List of substances of very high concern for Authorisation

(published in accordance with Article 59(10) of the REACH Regulation)

Notes:

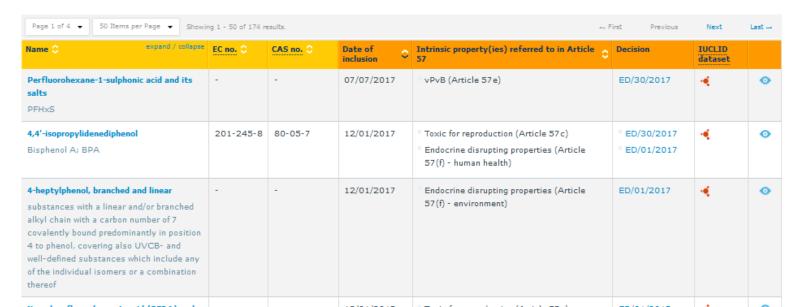
- Authentic version: Only the Candidate List published on this website is deemed authentic. Companies may have immediate legal obligations following the inclusion of a substance in the Candidate List on this website including in particular Articles 7, 31 and 33 of the REACH Regulation.
- Other numerical identifiers: For those entries with "-" in the EC number and CAS number columns, a non-exhaustive inventory of EC and/or CAS Registry numbers describing substances or groups of substances considered to fall within the scope of the Candidate List entry is included, where practicably possible. This information can be accessed through the "Details" button of the selected entry.

FURTHER INFORMATION

- More information about Candidate list of Substances of Very High Concern for Authorisation
- Data on Candidate List substances in articles

> Filter the list

CL: currently 174 entries





ECHA > Information on Chemicals > Authorisation List

Authorisation List

List of substances included in Annex XIV of REACH ("Authorisation List").

Important notice: transitional measures apply to companies established in Croatia for application for authorisation. For more details see the related "Q&A for Croatian companies pre-registering and registering under REACH" and more specifically the referred PDF document under point "7. What kind of transitional measures are regarding Applications for Authorisation?".

> Notes to the Authorisation List

Further information

- Recommendation for inclusion in Annex XIV of REACH ("Authorisation List")
- · Authorisation process under REACH
- · Applications for Authorisation under REACH
- Q&A on Authorisation

Last updated 16 June 2017. Database contains 43 unique substances/entries.

Authorisation List: currently 43 entries

Showing 43 results.						
Name 🗘 expand / collapse	EC no. 🔾	CAS no. 🔾	Entry no.	Latest application date 🗘	Sunset Date 🗢	
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	02	21/02/2013	21/08/2014	•
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	01	21/02/2013	21/08/2014	•
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	05	21/08/2013	21/02/2015	•
Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	04	21/08/2013	21/02/2015	•
Dibutyl phthalate (DBP)	201-557-4	84-74-2	06	21/08/2013	21/02/2015	•
Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	07	21/08/2013	21/02/2015	•
Diarsenic pentaoxide	215-116-9	1303-28-2	09	21/11/2013	21/05/2015	•
Diarsenic trioxide	215-481-4	1327-53-3	08	21/11/2013	21/05/2015	•
Lead chromate	231-846-0	7758-97-6	10	21/11/2013	21/05/2015	•
Lead chromate molybdate sulfate red	235-759-9	12656-85-8	12	21/11/2013	21/05/2015	•

To prepare or not to prepare an application





What are your options?

- Switch substances
- Adapt technologies or processes, develop new ones
- Use additional inputs

- Switch products
- Import products
- Change product specification
- Stop producing, using

What would the impacts be?

- Technical performance
- Product performance
- Efficiency, resource requirements
- Quality, aesthetics

- Costs, revenues, profits
- Commercial performance, investment, employment
- Competitive position
- Environmental & health risks

Core business issues: commercial, technical, strategic, not just about health safety and environmental compliance

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Analysing options and impacts tells you whether you need to apply for authorisation

Analysing:

- the remaining risk of continuing using the substance
- the availability of suitable alternatives
- the related socio-economic aspects of using and not using the substance
- the broader picture (market trends, competitors' behaviour, customers demand, internal CSR policy, etc.)

Will guide you whether you need to apply for an authorisation or not

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Support





ECHA offers extensive support

- Guidance documents, Q&As, instructions and user manuals, available at: http://echa.europa.eu/applying-for-authorisation
- 'How to apply for authorisation' guide published in December 2017: https://echa.europa.eu/documents/10162/13637/apply_for_authorisation_en.pdf
- Publishes information on how RAC and SEAC treat applications (e.g. length of review period, economic feasibility, confidentiality), as well as RAC's Reference DNELs/dose-response relationships: https://echa.europa.eu/applying-for-authorisation/evaluating-applications
- Partners' service for applicants: https://echa.europa.eu/applying-for-authorisation/partners-service-for-applicants
- Pre-submission information sessions considered very useful
- Specific help to small and medium sized companies: http://echa.europa.eu/support/small-and-medium-sized-enterprises-smes
- Authorisation landing page: https://echa.europa.eu/regulations/reach/authorisation/applications-for-authorisation

Strategy to support innovation to safer chemicals through innovation





Why a strategy?

- Aim: to accelerate substitution by supporting and complementing the regulatory stimulus
- Linked with current EU priorities of
 - circular economy,
 - sustainable manufacture and use of chemicals and
 - ECHA's strategic plan for 2019-23
- substitution of SVHCs also one of the aims of REACH authorisation
- Mind-set change: substitution is part of innovation!
- Building block for reaching the UN 2020 and 2030 Sustainable Development Goals

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Approach

- Promote best practices and change of mind-set
- Collaboration with all stakeholders is crucial
- Stepwise approach Four action areas

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Action areas

Capacity
building:
supply chain
workshops

Facilitating access to funding and support to R&D for substitution

Networking

Facilitating use of ECHA data for sustainable substitution



Capacity building through supply chain workshops

- Share a specific substitution challenge between substance users and suppliers, providers of alternatives, end-users, retailers, R&D and financial support, etc.
- Learn from others
- Get new ideas
- Identify gaps and training needs
- **✓ ECHA** as a catalyst
- → MSCAs/IND suggested to take the lead







Facilitating access to funding and support to R&D for substitution



- Fostering technical and financial support
- Easier access
- At EU and national levels

✓ ECHA's role limited

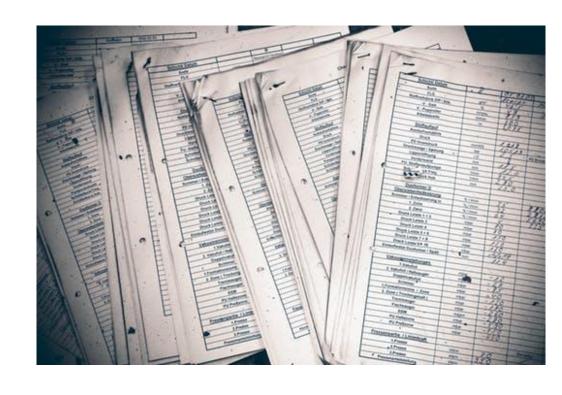
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Facilitating use of ECHA data for sustainable substitution

- Make use of ECHA's data (e.g. hazard) for substitution
- Avoid regrettable substitution

✓ ECHA's role central





Networking for analysis of alternatives and substitution



- For what purpose?
 - Share experience
 - Enhance collaboration
- Multi-stakeholders networks

✓ ECHA's role: facilitator/coordinator

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ECHA defining its role

Learning by doing

Finding ways to substitute through better analysis of alternatives

Cannot and should not do substitution work alone

Capacity building: supply chain workshops

Facilitating access to funding and support to R&D for substitution

Discuss with financiers to "open windows"

Networking

Facilitating use of ECHA data for sustainable substitution

Use ECHA's data to avoid regrettable substitution

ECHA defining its role...

What are you doing

...to support substitution?



Willing to organise or be part of a substance/function and sector-specific workshop?





Talk to your industry association and Member State
Competent Authority - ECHA can support



Examples of substitution supply chain workshops

- Finnish chrome platers workshop Finland January 2017
 - https://echa.europa.eu/documents/10162/13630/finnish crvi w orkshop en.pdf/e55d3063-00c2-c69c-004c-48d584257110
- Flame retardants in textile Belgium 16 January
 2018 info: <u>substitution@echa.europa.eu</u>
- Antifouling paints in recreational boats The Netherlands Q4 2018 (to be confirmed)

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You are providing support relevant for substitution-related issues? (finance, R&D, technical...)





tell ECHA via substitution@echa.europa.eu

Networking, list of support



More info

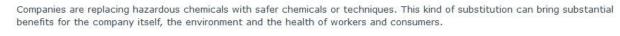
- Latest version of the draft strategy is available here: https://webgate.ec.europa.eu/echa-scircabc/w/browse/7abe525c-0533-4c08-9bb1-b50d935943cb
- If you are interested in being kept informed about the development of the strategy and its implementation send an email to: <u>substitution@echa.europa.eu</u>

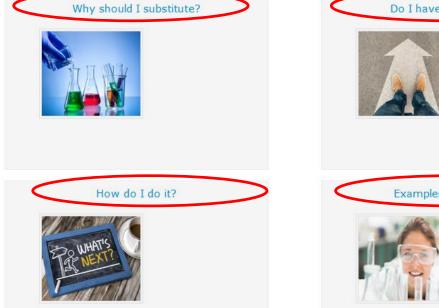
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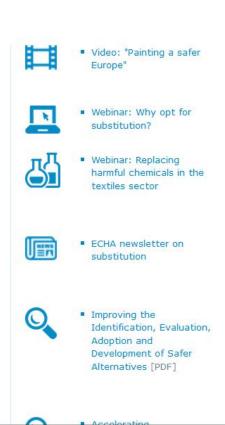
ECHA > Substituting hazardous chemicals

Substituting hazardous chemicals









https://echa.europa.eu/regulations/substituting-hazardous-chemicals

Take home messages





Take home messages

- Several regulatory actions provide incentives for substitution
- Authorisation is one of them
- Pay attention to early warnings and be proactive
- ECHA wants to support further substitution and developed a strategy to do it
- Substitution cannot be achieved alone involvement of stakeholders is key: contribute as well!

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Thank You!

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Complementary slides





What affects substitution?

Health and environmental risks

Technical functionality

Guarantee and liability regulations

Economy

Availability of the substitute

Company decision

Safety aspects

Qualification of employees

Societal pressure

Communication

Legislation and standardisation



Early warnings - Regulatory Risk Management activities encourage substitution

Preceding regulatory risk management processes

Regulatory risk management processes

Outcome

CoRAP + substance evaluation

PBT/ED
Assessment

PACT

RMOA

Dossier intentions (SVHC Restriction CLH)

Dossiers submitted (SVHC Restriction CLH) Recommen dation for inclusion in authorisati on list

Annex VI
Candidate List
Annex XIV
Annex XVII

'Early' warning

'Serious' warning

Comply

EU (European Commission with Member States and the Parliament) approves Annexes ECHA publishes the Candidate List 35



Classification, authorisation & restriction promote using safer chemicals

Classification to category 1A or 1B

- Consumers
 cannot use as
 such or in
 mixtures
- Industry takes action

Restriction

- Cannot use...
- Alternatives analysed
 - risks
 - technical and economic feasibility

Authorisation

- Cannot use unless applied
- Alternatives analysed
 - risks
 - technical and economic feasibility

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Aim of Authorisation

Article 55 of REACH:

Aim of authorisation and considerations for substitution

The aim of this Title is to ensure the good functioning of the internal market while assuring that the risks from substances of very high concern are properly controlled and that these substances are progressively replaced by suitable alternative substances or technologies where these are economically and technically viable. To this end all manufacturers, importers and downstream users applying for authorisations shall analyse the availability of alternatives and consider their risks, and the technical and economic feasibility of substitution.

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Analysing options and impacts tells you whether you need to apply for authorisation

- 1. Environmental and health risks are greater than the costs of alternative options
 - ⇒ You have found that authorisation is unlikely to be granted and you chose not to apply for an authorisation and to implement the alternative option
- 2. You identified viable alternatives
 - ⇒ You have found an option which is cheaper and/or better than authorisation (and saved the application costs)
- 3. You found that the costs of alternatives exceed the current risks or that suitable alternatives are not available yet
 - ⇒ You have a case for authorisation
 - ⇒ And you have done the core analysis you need for your application

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Case for authorisation, if benefits > risks

Benefits

- Avoided cost increases and/or reductions in profit
- Avoided reductions in economic performance, employment, investment
- Avoided environmental impacts: eg CO₂, air pollution from energy use, transport

Current risks

 Environmental and health impacts from using the substance

(Can be zero if risks are adequately controlled)

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- → Authorisation more likely when costs of the alternatives are higher and/or current risks are more controlled
- → Authorisation more likely when the case is clearer– a stronger case is likely to be a simpler case

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Always to keep in mind...

