

Reference:

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Author affiliation: T. Becker, Senior Legal Advisor, REACHLaw

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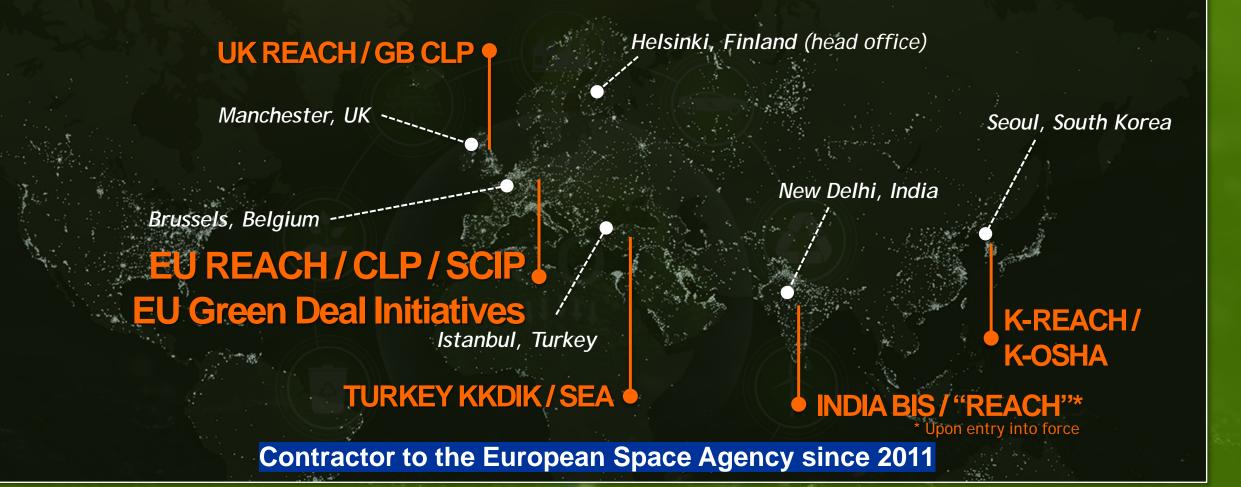
Priority actions on EU REACH and issues of concern for the European Space Sector Tim Becker, Senior Legal Advisor

19 June 2024 | ESA 5th REACH Workshop | ESA ESTEC, Noordwijk, The Netherlands

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PRIORITY ACTIONS ON EU REACH AND ISSUES OF CONCERN FOR SPACE

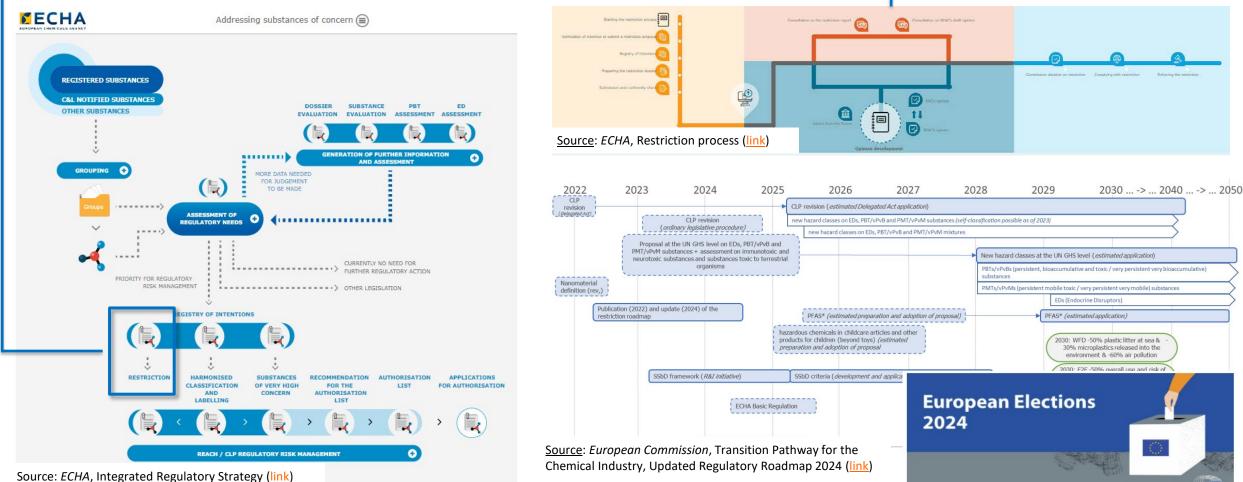
Agenda:

- Introduction: Navigating in a complex regulatory and political environment
- Group restrictions on PFAS and Chromates: Where are they heading?
- Essential Use Concept: Is it going to help Space?
- Substances of Concern": A new source of obsolescence?
- CSS REACH Revision: Is it still going to happen? Eurospace Position (2022)
- Hydrazine and an impactful change agreed at UN level: Reversal possible?

Conclusions



Introduction Navigating in a complex regulatory and political environment

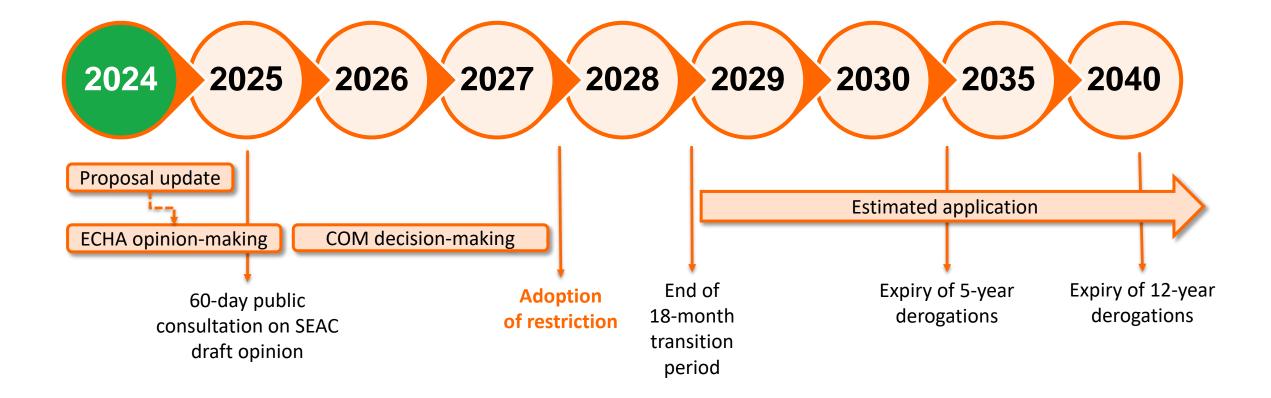


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Group restrictions: Where are they heading? Universal PFAS: Estimated timeline (updated)

REACHLaw estimate based on European Commission Updated Regulatory Roadmap (available <u>here</u>) and initial restriction proposal. Constant monitoring and adjustment required!





Group restrictions: Where are they heading? Universal PFAS: Sector by Sector approach for opinion-making

Sector/use breakdown according to U-PFAS Restriction Proposal (based on Table A.1.)

PFAS manufacture	Textiles, upholstery, leather, apparel and carpets (TULAC) – September meeting	Food contact materials and packaging – September meeting	Metal plating and manufacture of metal products – <i>Provisional conclusions</i>
Consumer mixtures Provisional conclusions	Cosmetics Provisional conclusions	Ski wax Provisional conclusions	Applications of fluorinated gases – next after September
Medical devices	Transport – next after September	Electronics and semiconductors	Energy sector
Construction products – next after September	Lubricants	Petroleum and mining – September meeting	Waste stage PFAS applications
Lab equipment & filtration	Plant protection products and biocides	Chemical industry	Firefighting foam – separate restriction proposal
Medicinal products	Plastics (other than packaging) and rubber/elastomer production (incl. flame retardants)	Pyrotechnics	Personal care products other than cosmetics
Fracking (currently hardly applicable in EEA)	Immersion cooling (currently hardly applicable in EEA)	Defence industry	Printing inks
Cement industry	Professional cleaning and polishing	Other niche applications	<mark>Uses (yet) unknown</mark>

ECHA Committee (RAC, SEAC) work on-going or planned

of key interest for space/related applications



Group restrictions: Where are they heading? Universal PFAS: European Space Sector response to ECHA

PFAS use mapping (extract)

Dossier information	
Possible derogation generally addressing the use ca	ase
(incl. par. and proposed duration in years)	
Textiles in filtration/separation media (par. 5e, 5 years)	
NO	
NO	
Fire suppressing agents (par. 5m / 12 years)	
NO	
NO	
Industrial precision cleaning fluids (par. 5k / 12 year	s)
NO	
Refrigerants in laboratory (par. 5g / 12 years)	
Transport refrigeration (par. 5q / 5 years)	
Hydraulic fluids for aerospace (par. 50, 12 years)	
NO	
NO Etc	
Etc.	

Comments to ECHA (22.9.2023)



EUROPEAN SPACE SECTOR COMMENTS ON THE ANNEX XV RESTRICTION REPORT FOR PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

ECHA Public Consultation of 22 March 2023 on the proposed restriction on the manufacture, placing on the market and use of PFASs



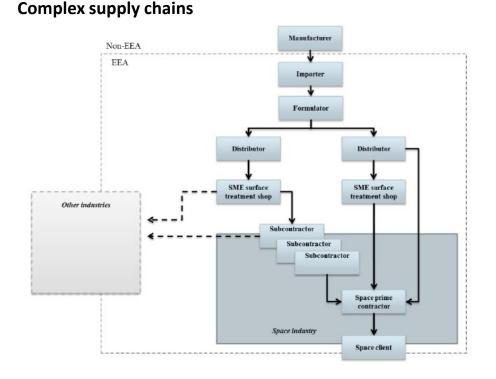
Requests submitted to ECHA:

- Fluoropolymers, including fluoroelastomers, should be entirely excluded from the scope of the universal PFAS restriction, at least for industrial applications
- Derogation for all remaining PFAS uses in equipment designed to be sent into space, as long as no successful transition to space qualified alternatives can be achieved -> in line with other EU legislation (e.g. RoHS, Batteries Regulation)
- Further derogations are necessary to enable our chemicals and component suppliers to maintain a business viable market in the EU for aerospace and defence, electronics and related sectors



Group restrictions: Where are they heading? Cr(VI) substances: Transitioning from Authorisation to Restrictions

- Use in the Space Sector has decreased, but is still relevant
- Regulatory situation remains very complex, various factors:







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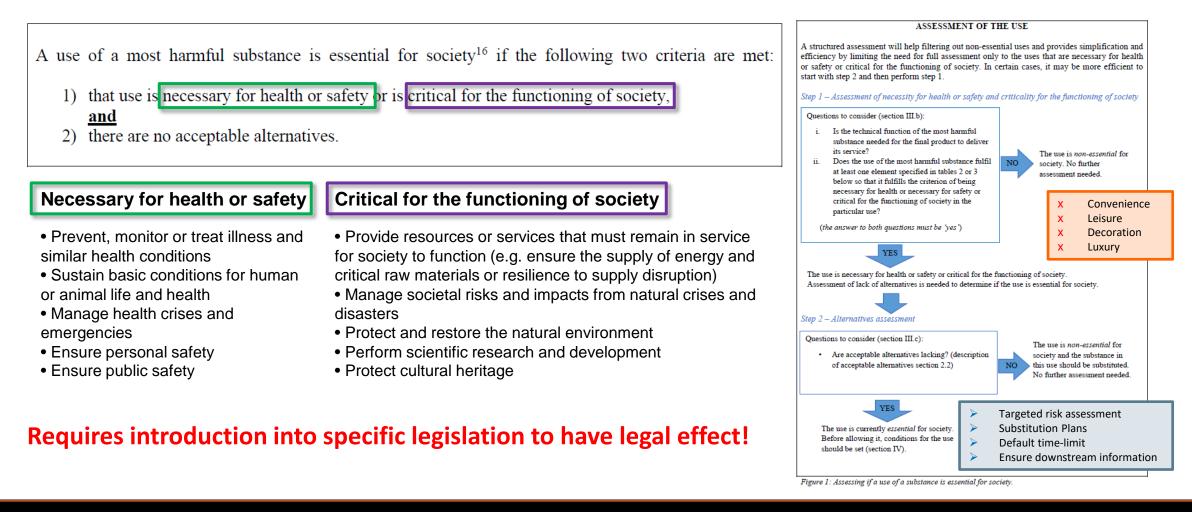
- Substance, use and applicant-specific
- Dependence on upstream authorisations
- Annulment of Commission upstream authorisation decision CTACSub (CrO3) effective since 21 April 2024
- > On-going re-application activities (ADCR, CTACSub2)
- > Separate authorisation systems in UK and Switzerland
- On-going restriction initiative by ECHA (on COM request)





Essential Use Concept: Is it going to help Space? The "Theory": Essence of the Commission Communication*

*Communication from the Commission "Guiding criteria and principles for the essential use concept in EU legislation dealing with chemicals, C(2024) 1995 final, 22 April 2024





Essential Use Concept: Is it going to help Space? Questions in Practice yet to be answered, such as...

How and when will the EUC be implemented in REACH?

Is EUC going to replace quantitative SEA?

What "conditions" for essential uses? How will the EUC effectively change decision making?

> Procedures ? Actors? Bodies?

Where is the overall sustainability of an alternative addressed in the process?

Content of "targeted risk assessment" for essential uses?

How will EUC's

"feasibility"

for REACH etc. be

assessed?

Fast-track

process for

upfront

exclusions?

Do we need to accept lower performing alternatives in Space in the future?

> Simplification for the granting of derogations for clear-cut Essential uses?

Is the definition of "most harmful substance" also covering self-classified substancs? How to assess alternatives "from a societal point of view"?

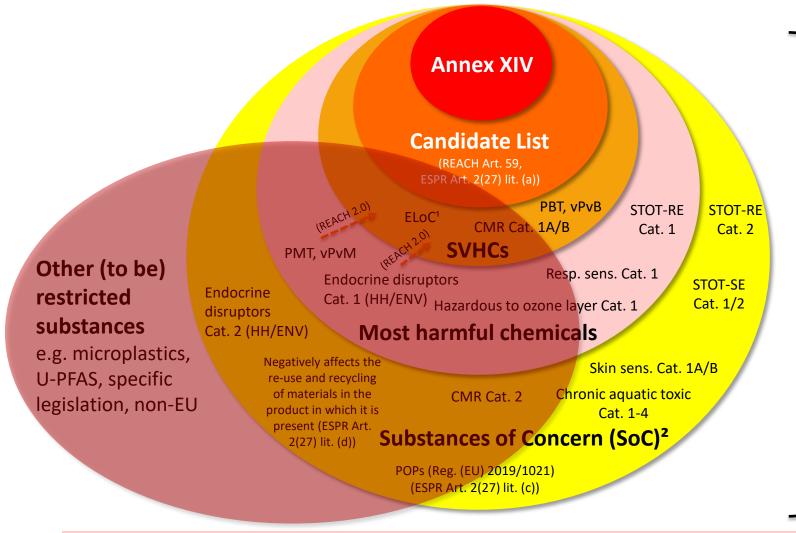
> What constitutes a "direct link" of the substance in Tables 2 and 3?

Scope of essential use assessment to "encompass broader product categories"?

Etc.



"Substances of Concern": A new source of obsolescence? Looking beyond Annex XIV and Candidate List



Increase of magnitude and obsolescence risks

Category	Substance nr. tracked*	Material hits (%)*	
Annex XIV	59	38 hits (4%)	
Cand. List	240 entries (491 SCIP IDs)	133 hits (15%)	
SVHCs	1,229 (CLH** CMR 1A/B)	192 hits (20%)	
SoCs	3,916 (CLH**)	413 hits (48%)	
Annex XVII	73 entries in total (>2,100 substances) 42 space relevant	181 hits (21%) 93 hits (11%)	
U-PFAS proposal	10,595 (OECD CAS nr.)	48 hits (5%)*** + ???	

Numbers provided by Oliver Reiff-Musgrove, REACHLaw Ltd.

*in <u>ESA REACH Tool</u>: An automatical tool to analyse the impact ("hits") of REACH/related substance lists on space materials based on Material Safety Data Sheet information.

****CLH** = Harmonised Classification & Labelling (CLP Annex VI) *******<u>Note</u>: Many PFAS/group entries cannot be found from SDS and affected materials have not previously been tracked, therefore the number of "hits" is not representative of the possible impact!

Notes: This diagram is simplified and does not replace a careful reading of the legal provisions (REACH, CLP, ESPR, CSRD/ESRS, POP, future ESPR delegated acts) and Commission communications (SSbD, EUC, etc.). ¹ELOC = Equivalent Level of Concern determined case by case (REACH Art. 57 lit. f)) by inclusion in the Candidate List.

²See Draft ESPR Art. 2(27) EP agreed text: Definition restricted to substances with the corresponding harmonized classifications in CLP Annex VI (ESPR Art. 2(27) lit. (b)), except for ESPR Art. 2(27) lit. (a), (c) and (d)

CSS REACH Revision: Is it still going to happen? Space Sector Position of 13 April 2022



ASD-EUROSPACE

Paris, 13 April 2022

EUROPEAN SPACE SECTOR FEEDBACK ON THE CSS REACH REVISION – POSITION PAPER

Reference: European Commission open public consultation on the targeted revision of the REACH Regulation (IEC) 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

This is the joint feedback of the European Space Industry, represented by ASD-EUROSPACE – with the support of the European Space Agency (ESA) and national space agencies – to the European Commission's (COM) open public consultation on the targeted revision of the REACH Regulation launched on 20.1.2022. It has been prepared with the support of the CSS Space Focus Group (SFG), a splinter group of the Materials and Processes Technology Board of the European Space Components Coordination (ESCC MPTB).¹ The SFG was established in April 2021 in response to the COM's Chemicals Strategy for Sustainability (CSS) of 14.10.2020, considering the magnitude of envisaged amendments to REACH and their possible impacts to the European Space Sector.

The present contribution follows on our feedback to the REACH Revision Roadmap of $1.6.2021^2$ and the comprehensive contribution of $27.1.2017^3$ to the previous COM REACH Review. It complements our response to the COM questionnaire for the present consultation as well as the contribution to the same consultation submitted by the AeroSpace and Defence Industries Association of Europe (ASD).

The major impacts for our sector from the REACH implementation to date and the planned CSS REACH Revision arise from the REACH Candidate List and the authorisation and restriction processes. In this regard, we also make reference to the ASD response dated 24.2.2022 to the questions included in COM paper CA/03/2022 on potential options for amendments of the REACH Regulation in order to reform REACH authorisation and restriction processes; this response was supported by the CSS SFG.

¹ See the list of CSS Space Focus Group participants at the end of this document. For further information about the CSS Space Focus Group, please see Eurospace News Alert of 26 April 2021 (link).

² https://eurospace.org/eurospace-calls-on-the-european-commission-to-reflect-special-features-andessential-role-of-space-products-in-the-planned-revision-of-the-reach-regulation.

³ Position Paper 2017; Questionnaire response 2017

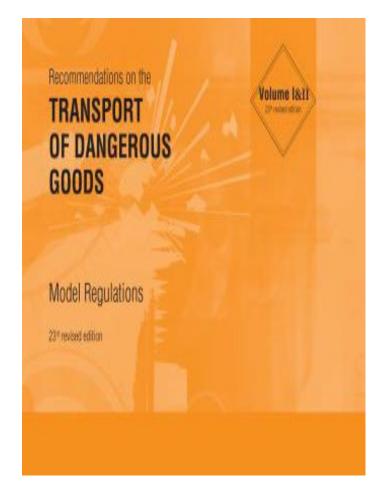
MPTB-ES-PO-0098

- Stability of the REACH regulatory system
- **Targeted changes** to achieve the following:
 - Deliver on the ambitions of burden reduction, simplification and more legal certainty for our industry, especially as part of the Authorisation and Restriction Reform
 - Fast-track process, upfront exclusions and derogations for essential uses, recognising that uses of chemicals without viable alternatives for the manufacturing of Space products in EU are essential
 - Clearer signals and more long-term planning security to companies are given for the management of most harmful chemicals / Substances of Very High Concern
 - Any new duties for downstream users in relation to these substances (e.g. reporting to ECHA) are manageable, proportionate and fit for purpose
 - Obsolescence risks for materials and processes in the space industry are minimised, especially from broad-scope regulatory actions.

The Eurospace Position Paper is available at https://eurospace.org/wp-content/uploads/2022/04/eurospace_sfg_position-paper_reach-rev_opc_13042022.pdf



Energetic materials and an impactful change agreed at UN level Planned amendment of UN 2029 for hydrazine anhydrous



- Preparation of the 24th Revision of the UN Model
 Regulations for the Transport of Dangerous Goods
 (TDG) due to come into force in January 2027
- The UN Sub-Committee of Experts on the Transport of Dangerous Goods (SCETDG) agreed in December 2023 to add a special packing provision "PP5" to the existing entry UN number 2029 for hydrazine anhydrous in the Dangerous Goods List, on (revised) proposal by China
- Impact assessment by Space Energetic Materials
 Working Group (EMWG) identified a concern: could no
 longer use current pressure vessels & lack of
 alternatives, not able to comply with future PP5
- Eurospace paper prepared by EMWG (MPTB-ES-PO-0150), and supported by the Aerospace, Security and Defence Industries Association of Europe (ASD), Defense Logistics Agency Aerospace Energy of US and the Aerospace Industries Association of America (AIA)
- On-going: Approaching Member States/experts in the UN SCETDG (DE, FR, NL, ...) to seek their support to ensure continued compliance with UN number 2029.



Priority actions on EU REACH and issues of concern for Space Conclusions: Moving target, hybrid challenge

ECHA

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Universal PFAS: Estimated timeline (updated)

REACHLaw estimate based on European Commission Updated Regulatory Roadmap (available here) and initial restriction proposal. Constant monitoring and adjustment required!



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Questions & Answers

Contact details

REACHLAW

COMPLIANCE. ADVOCACY. SUSTAINABILITY.

REACHLaw Ltd.

Aleksanterinkatu 19 FI-00100 Helsinki FINLAND

www.reachlaw.fi info@reachlaw.fi

TIM BECKER

Senior Legal Advisor +358 40 773 8143 tim.becker@reachlaw.fi



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Page 17



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