



Reference:

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Contacts to author: Marie.Christine.Contino@esa.int

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ESA 4TH REACH WORKSHOP WELCOME AND INTRODCUTION

Marie-Christine CONTINO
Flight Programmes Department
Space Transportation Directorate
European Space Agency
52, rue Hillairet
F-75015 PARIS

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WELCOME AGAIN!

After 2 years of absence due to Covid 19 restrictions, ESA is pleased to welcome you for this 4th edition of the ESA REACH Workshop and its impact on space sector.



Workshop on the EU REACH Regulation and its impact on the Space Sector

A graphic for the workshop registration. It features a central QR code with the text "Free registration!" above it and "scan me!" below it. The QR code is flanked by four small images: a rocket launch, a space station component, two astronauts in a cleanroom, and two astronauts in a space suit. At the bottom, there is a URL for registration: "https://atpi.eventsair.com/esa-4th-reach-workshop". The background of the graphic is a dark, rocky surface, possibly representing a moon or asteroid.



What is REACH?

The **R**egistration, **E**valuation, **A**uthorisation and Restriction of **C**hemicals (REACH) regulation has been adopted in the European Union to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing competitiveness and innovation.

In the REACH regulation process, the candidate list is the baseline tool to identify substances as Substances of Very High Concern (SVHC)

Why a workshop on REACH?

At the time of our last REACH workshop in 2019, the European Commission's SVHC Roadmap to 2020 aimed to have all relevant currently known SVHCs included in the Candidate List by 2020.

With regards to the space sector, in 2019, about 9% of space-used materials tracked contained candidate list substances. It was expected to increase in the next years.

Since then ,

 **ECHA:** The Candidate List has grown to 226 entries and new recommendations for Annex XIV additions have been issued / are under development.

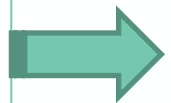
 **Worldwide:** A lot of events have occurred since 2019, Covid-19 pandemic, implementation of Brexit, and more recently Ukraine war and energy crisis .

All these events have or will have an impact on our societies and concerning space sector on our European space programmes.

SPACE SECTOR MAIN SPECIFICITIES

The European *space sector* specificities:

- Extreme environmental requirements
- High performance exigence
- High level of safety constraints
- Complex supply chain
- Small production unit compared to other economic sectors like aeronautics, cars, pharmaceutical



Any change in this high technological 'niche' needs long and complex requalification process

SPACE TRANSPORTATION MAIN SPECIFICITIES

The European *space transportation* specificities:

- Long life cycle development and exploitation of new launchers (Ariane 6 and Vega C)
- The maintenance of qualified launchers equipment in exploitation

→ ESA was mandated by its Member States to guarantee a *European access to space*

- ***Any change in a launch vehicle qualified configuration needs long and complex requalification process***
- ***The main risk for ESA launch vehicles is the strategic risk as potential supply chain disruptions could hamper launch vehicles production, ⚠ jeopardising the European access to space***



ESA actions on REACH follow up

-  **Commits** with its industrial partners to fulfill REACH regulation while keeping the top level requirement guaranteeing Europe a continuous independent access to space for what concerns space transportation and high quality and performance of satellites
-  **Participates** in the platform of discussion and exchange between ESA, National Agencies (CNES, DLR, ASI) and industrial partners to survey REACH regulation updates and their constant assessment on impacts on space sector
-  **Contributes** to the establishment of strategic component dossiers in participating in specific Tasks Force committees like Hydrazine, Chromates, Lead
-  **Interfaces** actively with EC emphasizing the importance of some components to assure European access to space but also to accomplish its space missions (as example, Hydrazine dossier)
-  **Promotes** in parallel R&D activities on innovation for alternatives to progressively substitute substances under REACH regulation to sustainable technologies

This workshop will address:

- ✓ **The latest evolutions under the REACH Regulation impacting the space sector;**
- ✓ **How the space sector is adapting to this demanding European regulation and the current challenges;**
- ✓ **How other sectors are managing this regulation;**
- ✓ **How the REACH regulation may evolve under the European Green Deal (2019) and the Chemicals Strategy for Sustainability (2020);**
- ✓ **How the space sector is taking this opportunity to innovate in the field of new technologies.**

“The ESA Council at Ministerial level, CM22, taking place in Paris, France, on 22 and 23 November 2022, will be a time for critical decisions. ESA’s Member States, Associate States and Cooperating States must together strengthen Europe’s space sector and ensure it continues to serve European citizens.”

ESA and European industry are ready to face these challenges in order to stay compliant with European regulations which are part of the foundations of European space programmes contributing to the success of our space missions.

Wishing you a fruitful workshop!