

EFSA RISK ASSESSMENTS OF TFA

Manuela Tiramani

Head of Unit

PREV mammalian toxicity



TRIFLUOROACETIC ACID (TFA)

- Persistent metabolite
- Originates from multiple sources:
 - Formed from the breakdown of PFAS chemicals including some active substances used in PPPs and biocidal products
- It may leach into groundwater or may be present as a residue in crops

Among 59 cases, **12 PFAS active substances** shown to produce TFA in residues, soil and/or groundwater



BACKGROUND

Before 2017

TFA formed by several pesticide active substance: evaluation performed in different peer review processes

January 2021

Article 56 notification from Bayer / REACH registrant to EFSA, the EC and all MSs: information on **adverse developmental effects in rabbits** after TFA exposure

2017

Most robust toxicological data package in the case of flurtamone: **toxicological reference values** derived.

ADI = 0.05 mg/kg bw per day (expressed as sodium trifluoroacetate) based on a 90-day rat study – UF 200 (extrapolation from subchronic to chronic exposure).

No ARfD needed based on the available toxicological studies

November 2022

REACH dossier evaluation by ECHA, updated, including the new developmental toxicity study.



BACKGROUND

August 2023:

Updated assessment in the context of tritosulfuron: **data gap on aneugenicity** based on EFSA SC Guidance doc on genotoxicity (2021)

May 2024:

Update to Article 56 notification from TFA task force: submission of all remaining studies to EFSA, the EC and all MSs

November 2023:

CLH proposal from DE in the registry of CLH intentions on TFA

June 2024:

Submission of CLH dossiers by DE on TFA and TFA salt:
→ Proposal classification for **reproductive toxicity 1B, vPvM, PMT**



EUROPEAN COMMISSION MANDATE

Request from the Commission to issue an EFSA statement

26 July 2024

- To derive HBGVs (ADI and ARfD) for TFA to be used in risk assessments.
- Proposed values in the draft statement:

ADI = 0.03 mg/kg bw per day
(expressed as sodium trifluoroacetate)

ARfD of 0.6 mg/kg bw
(expressed as sodium trifluoroacetate)

- 60-day public consultation – from 22 July to 22 September 2025

→ Substantial number of comments collected: **177 comments** from a wide range of stakeholders:



EUROPEAN COMMISSION
DIRECTORATE-GENERAL FOR HEALTH AND FOOD SAFETY
Food Safety, Sustainability, and Innovation
Pesticides and Biocides

Brussels
SANTE.E.4/MW/et(2024)6060727

Subject: Request for a review of the toxicological reference values for trifluoroacetic acid (TFA)

Trifluoroacetic acid (TFA) is a persistent metabolite formed from the breakdown of some active substances used in plant protection⁽¹⁾ and biocidal products as well as from the breakdown of other PFAS chemicals. It is also used as a pre-cursor in the manufacture of chemicals and occurs naturally in the environment.

TFA thus originates from multiple sources and may also form in soil from the breakdown of certain active substances. It may then leach into groundwater or may be present as a residue in crops, in particular crops grown in rotation with those treated with substances that breakdown into TFA.



NEXT STEPS



Extended legal deadline: 31 July 2026



NEW MANDATE TO CONSIDER THE FATE AND BEHAVIOUR OF TFA IN SOIL AND WATER

- Why is TFA a concern?
 - Concerns about the presence of TFA in the environment and human exposure (in particular through drinking water) have increased over the years.
 - For persistent active substances, the formation of TFA may occur over extended periods.
 - The standard **OECD 307 soil degradation study**, when only following the option of a **120-day incubation**, may not adequately capture the long-term formation of TFA.



A **new joint mandate** has been received by **EFSA and ECHA**, currently under acceptance phase.



MAIN OBJECTIVES OF THE NEW MANDATE

- Compile list of approved substances with TFA formation potential
- Indicate factors and conditions influencing TFA formation in soil/surface water systems.
- Assess suitability of OECD Study Guidelines
- Explore Alternative Prediction Methods
- **Deadline:** within 18 mo from acceptance (to accommodate consultation with Biocidal Product C.tee (BPC) in ECHA





Thanks for your attention



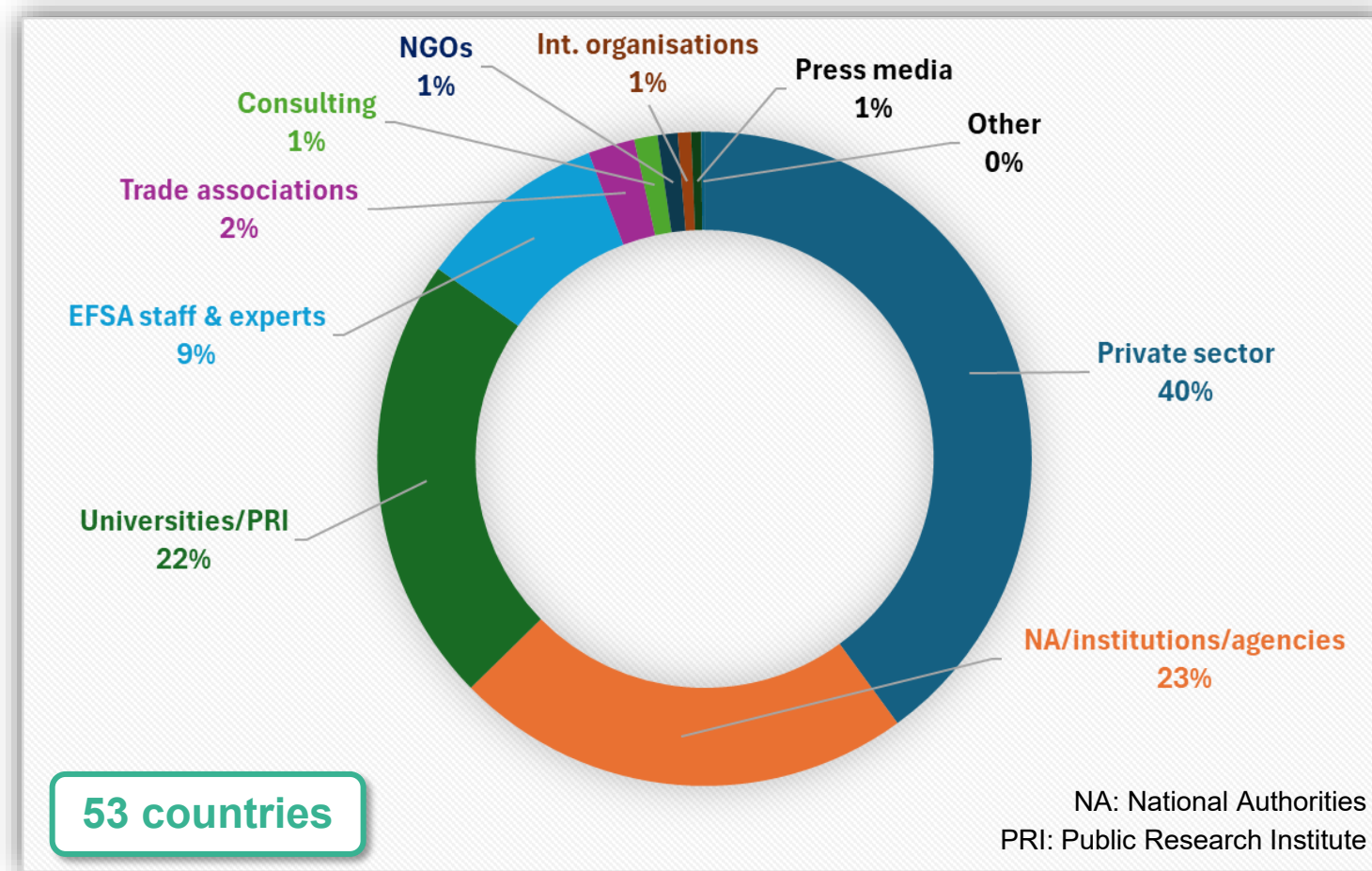


WORKSHOP ON LATEST ADVANCEMENTS OF PFASs RISK ASSESSMENT

EFSA online event
17 November 2025, 14.00-18.00

PARTICIPANTS

305 participants (out of 608 registrants) & 180 questions received



PROGRAMME (1/2)

SESSION 1 | Scientific assessments of PFASs

Chair: Guilhem de Seze, EFSA (IT)

14:00-14:10	Welcome and introduction to the event	Guilhem de Sèze, EFSA
14:10-14:20	WHO initiatives to evaluate PFAS (Phase 1)	Virunya Bhat, WHO, Switzerland
14:20-14:30	EFSA risk assessments on PFASs	Chantra Eskes, EFSA, Italy Ron Hoogenboom, EFSA SC; WUR, Netherlands Marco Binaglia, EFSA, Italy
14:30-14:40	EU Member States Initiative Group on PFAS	Matthieu Schuller, ANSES, France & Jorge Numata, BfR, Germany
14:40-14:50	BfR international conference on PFASs	Jorge Numata, BfR, Germany
14:50-15:00	ECHA activities on PFASs	Peter van der Zandt, ECHA, Finland
15:00 – 15:10	EEA reports on PFASs	Nadia Cerioli, EEA, Denmark
15:10 – 15:20	PARC activities on PFASs	Lutz Ahrens, University of Agricultural Sciences, Uppsala, Sweden Thorhallur Thalldorsson, EFSA SC; Statens Serum Institute, Denmark; University of Iceland, Reykjavík
15:20 – 15:50	Questions and answers	Chair, Speakers, Participants
15:50 – 16:10	Coffee break	

PROGRAMME (2/2)

SESSION 2 Stakeholders perspectives on scientific assessment of PFASs Chair: Mary Gilsenan, EFSA (IT)		
16:10-16:15	The European Consumers Organisation: BEUC	Lauri ten Grotenhuis, Netherlands
16:15-16:20	EU Agrocooperative & EU Farmers: Copa and Cogeca	Henrik Bang Jensen, Denmark
16:20-16:25	Pesticides Action Network Europe: PAN-Europe	Angeliki Lyssimachou, Belgium
16:25-16:30	CropLife Europe	Emma Brown, Belgium
16:30 – 17:00	Questions and answers	Chair, Speakers, Participants
SESSION 3 General discussion Moderator: Carlos das Neves, EFSA (IT)		
17:00-17:45	General discussions	Chair, Speakers, Participants
17:45-18:00	Concluding remarks	Carlos das Neves, EFSA

MAIN TAKE-HOME MESSAGES

- **PFAS is a large family of compounds which require large scale testing**
- **Need for harmonisation, sharing, alignment and team-up**
Coordination & prioritization across scientific, academic and regulatory domains
- **Need for integrated solutions**
Environmental, animal and human health data needed to strengthen risk assessment
- **Persistence and collaboration in risk assessment, risk communication, and in closing scientific knowledge gaps**
 - Foster dialogue, engagement & collaboration
 - Joint strategy to prioritise knowledge gaps and generate missing data
 - Support, training and capacity building
 - Coordinated & clear communication



NEXT STEPS



The screenshot shows the EFSA (European Food Safety Authority) website. At the top, there is a navigation bar with links: About, Newsroom, Topics, Resources, Publications, Applications, Engage, and Careers. Below this, a workshop announcement is displayed for "Workshop on latest advancements of PFASs risk assessment". The event is scheduled for 17 November 2025, from 14:00 to 18:00 (CET), and will take place in Parma, Italy, and online. Social media sharing icons for LinkedIn, Twitter, Facebook, and YouTube are also visible.

Workshop on latest advancements of PFASs risk assessment

17 November 2025, 14:00 - 18:00 (CET)
Parma, Italy and online

- Publication of **presentations & workshop report**
- Reflection on **how to build further bridges for co-ordination and communication across all actors** involved



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