



Chemours Consent Order Toxicity Studies: *Status Updates*

NC Secretaries' Science Advisory Board Meeting
December 3, 2025

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DEQ Environmental Toxicologist



Consent Order Paragraph 14 PFAS

PFMOAA

PMPA

PFO2HxA

PEPA

Nafion BP2

Chemours Consent Order: Toxicity Study Details – P:14

“The following studies, which shall be conducted following applicable USEPA, OECD protocols as defined in the USEPA TSCA, OPPT or other appropriate programs as determined by DEQ.”

Ecological Toxicity Studies:

- Algal acute (72-hour growth) toxicity study
- Daphnid acute toxicity study
- Daphnid chronic (reproduction) toxicity study
- Fish acute toxicity study
- Sediment 10-day freshwater invertebrates

Aquatic Tox Studies:
algae, zooplankton, fish, earthworms

Rodent Toxicity Studies

- 28-day oral immunotoxicity study in rats
- 28-day oral immunotoxicity study in mice
- 90-day repeated dose oral toxicity study in rats
- 90-day repeated dose oral toxicity study in mice

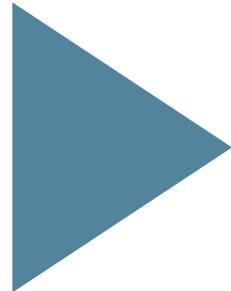
Rodent Studies: *mouse and rat; classic and immuno-toxicity*

Aquatic Toxicity Studies – Completion Status

P:14 PFAS Compound	Algae	Daphnia (acute)	Daphnia (chronic)	Fish	Sediment
PFMOAA	✓	✓	✓	✓	✓
PMPA	✓	✓	✓	✓	✓
PEPA	✓	✓	✓	✓	✓
PFO ₂ HxA	✓	✓	✓	✓	✓
Nafion BP2	✓	✓	✓	✓	✓
<i>Date presented to SAB</i>	Dec 2024	Dec 2024	April 2025	Dec 2024	Dec 2025

Update Since October 1, 2025, Meeting

Received
final reports
for
earthworms/
sediment
experiment



Received on
Nov 3, 2025

Rodent Toxicity Studies – Completion Status

P:14 PFAS Compound	Rat 28-day Immuno- Tox	Rat 90-day Classic Tox	Mouse 28-day Immuno-Tox	Mouse 90-day Classic Tox
Nafion BP2	✓	-	✓	-
PFMOAA	Analysis Underway	-	Analysis Underway	-
PMPA	Analysis Underway	-	Analysis Underway	-
PEPA	Analysis Underway	-	Analysis Underway	-
PFO2HxA	Experiment Ongoing	-	Experiment Scheduling	-

- Not started

Rat 28-day Immuno-Tox Study Dates

P:14 PFAS Compound	Start (dosing)	End (necropsy)	Draft report	Final report	Status
Nafion BP2	04 Jun 2024	03 Jul 2024	27 Sep 2024	26 Mar 2025	Complete
PFMOAA	29 Jan 2025	27 Feb 2025	22 May 2025	18 Nov 2025	Awaiting final report
PEPA	04 June 2025	03 Jul 2025	29 Sep 2025	27 Mar 2026	Awaiting final report
PMPA	24 Jun 2025	23 Jul 2025	16 Oct 2025	14 Apr 2026	Analysis Underway
PFO2HxA	16 Sep 2025	15 Oct 2025	14 Jan 2026	13 Jul 2026	Experiment Underway

Mouse 28-day Immuno-Tox Study Dates

14 PFAS Compound	Start (dosing)	End (necropsy)	Draft report	Final report	Status
Nafion BP2	14 Jul 2025	12 Aug 2025	05 Nov 2025	04 May 2026	Analysis Underway
PFMOAA	29 July 2025	26 Aug 2025	05 Nov 2025	04 May 2026	Analysis Underway
PEPA	28 July 2025	25 Aug 2025	19 Nov 2025	18 May 2026	Analysis Underway
PMPA	21 Jul 2025	19 Aug 2025	12 Nov 2025	11 May 2026	Analysis Underway
PFO2HxA	<i>Currently Scheduling</i>				

Next Steps: Studies Underway and Completed

Receive/Review
final reports for
in-progress rodent
28-day studies

- Present at SAB
meetings as they are
received/reviewed

Next Steps: Remaining Studies

Rodent Toxicity Studies:

- *90-day toxicity study in rats*
- *90-day toxicity study in mice*
- All 5 PFAS

Doses and Scheduling

- Discuss with Chemours toxicologist and Charles River Labs scientists

Thank you

Department of Environmental Quality