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## Mapping of PFAS uses evaluated in the SEAC draft opinion

ECHA expects to launch the consultation on the draft opinion of its Committee for Socio-Economic Analysis (SEAC) on the [PFAS restriction proposal](#) shortly after its expected agreement in March 2026. The consultation will include general questions on all the different aspects covered in the SEAC draft opinion as well as detailed questions on each of the sector-specific evaluations carried out by the Committee. To help stakeholders to identify what sector-specific evaluation their use falls under, ECHA is publishing this initial use mapping of the sectors evaluated in the SEAC draft opinion. An update of this mapping will be published after the SEAC plenary in December 2025, when the remaining sector-specific evaluations will be provisionally concluded.

The consultation on the SEAC draft opinion will include specific questions on 14 sectors and PFAS manufacturing. These questions will be use-specific, so it is important that stakeholders are prepared to provide information at the appropriate use level.

Table 1 maps uses to the sectors evaluated within the draft SEAC opinion. The structure is based on the Background Document prepared by the Dossier Submitter and reflects the level of detail in SEAC draft opinion.

So far, SEAC has provisionally agreed on 13 sectors. The electronics and semiconductors sector and PFAS manufacturing are expected to be agreed provisionally in December 2025. After that, an updated use mapping will be published. This update will also provide a clearer description of the uses within each sector, showing how they fit into the bigger picture. Further changes to the use mapping are still possible.

The final use mapping, reflecting any revisions made to the draft opinion, will be published when the consultation begins.

The consultation will also include general questions, inviting stakeholders to comment on all sectors of use, including the eight additional sectors identified in the Background Document but not covered in the SEAC sector-specific evaluations, as well as any other sectors not identified in the Background Document.

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**Table 1: Draft use mapping for the SEAC draft opinion consultation**

Sector	Use category	Sub-use	Application
Consumer mixtures and miscellaneous articles	Consumer mixtures	Cleaners for glass, metal, ceramic, carpet and upholstery	
		Waxes and polishes (for e.g. furniture, floors and cars)	
		Dishwashing products	
		Windscreen treatments for automobiles and windscreen wiper fluids	
		Anti-fogging agents for spectacles and goggles	
		Lubricants for piano keys	
		Lubricants for strings for musical instruments	
	Miscellaneous consumer articles	Strings for musical instruments	
		Fishing lines	
		Synthetic turf	
Cosmetics	Cosmetic products containing PFAS		
	Use of TFA in the synthesis of peptides as cosmetic ingredients		
Ski wax			
Metal plating and manufacture of metal products	Chrome plating	Hard chrome plating	
		Decorative chrome plating	

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Sector	Use category	Sub-use	Application
	Plating with other metals	Plating on plastic	
		Nickel plating	
		Aluminium anodising	
		Other metals	
	Manufacture of metal products	Metal coating	
		Razor blades coating	
		Solvents for metal cleaning	
Petroleum and mining	Tracers	Oil and gas tracers	
		Water tracers	
	Anti-foaming agents		
Textiles, upholstery, leather, apparel and carpets (TULAC)	Home textiles		
	Consumer apparel		
	Professional apparel and personal protective equipment (PPE)	Professional apparel (including professional sports-/footwear and uniforms)	
		Personal protective equipment (PPE)	PPE intended to protect users against risks as specified in Regulation (EU) 2016/425, Annex I, risk categories I and II
			PPE intended to protect users against risks as specified in Regulation (EU) 2016/425, Annex I, risk categories III(a) and III(c)
			PPE intended to protect users against risks as specified in Regulation (EU) 2016/425, Annex I, risk

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Sector	Use category	Sub-use	Application
			categories III(b) and III(d-m)
			PPE specifically designed for armed forces, the maintenance of law and order and other emergency response workers
			Impregnation agents for re-impregnation of PPE
	Leather		
	Home fabric treatment (sprays)		
Food contact materials (FCM) and packaging	Packaging (FCM and non-FCM applications)	Paper-board packaging	
		Inks, lacquers and waxes in FCM packaging	
		Polymer processing aids used in flexible plastic film extrusion	
		Packaging uses of f-HDPE	
		Other packaging applications	
	Non-stick coatings in consumer cookware and domestic appliances		
	Non-stick coatings in industrial bakeware		
Construction products	Architectural coatings and paints		
	Coil coating		
	Polymer additives used for fire safety purposes		
	Film/foil for greenhouses		

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Sector	Use category	Sub-use	Application
	Polymeric PFAS – processing aids for the production of non-PFAS polymers/plastics		
	Bridge and building bearings		
	Window frames		
	Plumbing applications (wetted pipes and fittings)		
	Polymeric PFAS – surface protection		
	Side-chain fluorinated polymers – surface protection		
	Wetting/levelling agents in e.g. coatings, paints and adhesives		
	Non-polymeric PFAS used as processing aids for the production of construction articles		
	Window film manufacturing		
Applications of fluorinated gases	Refrigeration	Domestic refrigeration	Domestic refrigerators and freezers
		Commercial refrigeration	Refrigerators and freezers for commercial use (self-contained equipment)
			Multipack centralised refrigeration systems for commercial use
			Primary refrigerant circuit of cascade systems
		Industrial refrigeration	Refrigeration equipment, except chillers and self-contained refrigeration equipment

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Sector	Use category	Sub-use	Application
			Self-contained refrigeration equipment, except chillers
			Chillers up to and including a rated capacity of 12 kW
			Chillers above 12 kW
	Air conditioning and heat pumps	Refrigerants for maintenance and refilling of existing HVACR equipment	
		Self-contained air-conditioning equipment and heat pumps	Plug-in room air-conditioning equipment, monoblock air-conditioning equipment, other self-contained air-conditioning equipment and self-contained heat pumps, with a maximum rated capacity of up to and including 12 kW
			Monoblock air-conditioning equipment and heat pumps, with a maximum rated capacity of more than 12 kW but not exceeding 50 kW
			Other self-contained air-conditioning equipment and heat pumps (regardless of maximum rated capacity, but above 12 kW), except industrial uses
			Industrial uses of self-contained heat pumps with a maximum rated capacity above 12 kW.
		Split air-conditioning equipment and heat pumps	Split systems of a rated capacity up to and including 12 kW
			Split systems of a rated capacity of more than 12 kW, except industrial uses
			Industrial uses of split systems with a maximum rated capacity above 12 kW

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Sector	Use category	Sub-use	Application
		Refrigerants for maintenance and refilling of existing HVACR equipment	
	Foam blowing agents in thermal insulation foam		
	Propellants for technical aerosols (where non-flammability and high technical performance of spray quality are required)		
	Cover gases	Cover gases in magnesium diecasting	
		Cover gases in sand casting	
	Clean fire suppressants	Applications where current alternatives damage the assets to be protected or pose a risk to human health (e.g. in aviation, certain data centres, historical archives and museums)	FK-5-1-12 used to protect critical or culturally significant infrastructure
			2-BTP used in hand-held extinguishers on board aircraft
			Applications of clean fire suppressants, except FK-5-1-12 used to protect critical or culturally significant infrastructure and 2-BTP used in hand-held extinguishers on board aircraft
		Clean fire-suppressing agents used for maintenance and refilling of existing fire-suppressing equipment	
	Preservation of cultural paper-based materials		
	Insulating gases in electrical equipment	Electrical switchgear up to and including 145 kV	

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Sector	Use category	Sub-use	Application
Medical devices		Electrical switchgear above 145 kV	C5-FK used in electrical switchgear above 145 kV
			HFO-1234yf used in electrical switchgear above 145 kV
			Insulating gases used in electrical switchgear above 145 kV, except C5-FK and HFO-1234yf
	Implantable medical devices	Insulating gases for maintenance and refilling of existing switchgear equipment	
		Medical implants	
	Invasive medical devices	Fluorinated meshes	
		Tubes and catheters	
	Non-implantable non-invasive medical devices	Vision applications	
		Sterilisation gases	
		Wound treatment products	
Transport	Packaging of medical devices	Coatings	
		PCTFE in packaging of terminally sterilised and non-sterilised medical devices	
		Polymer processing aids used in flexible plastic film extrusion for packaging of terminally sterilised and non-sterilised medical devices	
	Body, hull and fuselage construction	Waxes for inks and lacquers used on packaging of medical devices	
		Foam mouldings	

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Sector	Use category	Sub-use	Application
	Combustion engine systems	Body, hull and fuselage construction uses, except foam mouldings	
		Tubes and hoses	
		Combustion engine systems, except tubes and hoses	
	Coatings, liners and finishes	Protective coatings and paints	
		Hydrophobic coatings for windshields	
		Cable liners and coatings for transport vehicles, including high voltage insulators	
		FEP based heat shrink sleeving	
		Other uses of PFAS in coatings, liners and finishes	
	Aerospace-specific applications	Aerospace hoses	
		Wrap for aluminium fan cases for jet engines	
	Hydraulic fluids	Additives in hydraulic fluids in transport vehicles	Air- and spacecraft
			Non-road equipment
			Other transport vehicles
	Mobile air conditioning (MAC) and heat pump systems	Light duty electrical vehicles	
		All other vehicles	
		Maintenance/repair, including refilling, of existing equipment that was originally designed	

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Sector	Use category	Sub-use	Application
	Transport refrigeration	to use PFAS	
		Marine applications	
		Other applications	
		Maintenance/repair, including refilling, of existing equipment that was originally designed to use PFAS	
	Other transport uses		
Energy	Renewable energy generation (i.e. wind and solar energy)	Solar collectors	
		Photovoltaic cells (solar panels)	
		Wind energy	
	Hydrogen technology	PEM fuel cells	PEM fuel cells applications, except bipolar plates
			Bipolar plates
		PEM water electrolyser	
		PEM hydrogen compression, purification and extraction	
		Alkaline water electrolyzers (AWEs)	
		Direct-methanol fuel cells (DMFC)	
		Anion exchange membrane electrolysis (AEM)	
	Manufacturing of chemicals via electrolysis	Chlor-alkali electrolysis	
		HCl electrolysis	

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Sector	Use category	Sub-use	Application
	Batteries	PEM electrolysis (ozone production)	
		Batteries in general (primary/secondary)	Binders
			Electrolytes
			Separator coatings
		Lithium-ion batteries (prismatic, cylindrical and pouch) (secondary)	
		Primary lithium batteries / coin / cylindrical	
		Coin lithium rechargeable (secondary)	
		Nickel metal hybrid battery/nickel cadmium battery (secondary)	
		Lithium thionyl chloride battery (ER) (primary)	
		Alkaline button (LR) (primary)	
		Electric double layer capacitors (EDLCs)	
		Solid-state batteries	
		Zinc-air batteries	
		Silver oxide batteries (SR)	
		H <sub>2</sub> -gas generation battery	
		Flow batteries	
	Electrical grids	Switchgear/circuit breakers (gas-insulated switchgear and air-insulated switchgear)	

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Sector	Use category	Sub-use	Application
Lubricants	Industrial use		
	Professional use		
	Consumer use		
Electronics and semiconductors	<i>To be added after SEAC's provisional agreement, tentatively planned in December 2025</i>		
PFAS manufacturing	<i>To be added after SEAC's provisional agreement, tentatively planned in December 2025</i>		