

Nexperia's Position on PFAS

In February 2023, the European Chemicals Agency (ECHA) published a universal restriction proposal on per- and polyfluoroalkyl substances (PFAS). While the term PFAS covers a theoretically limitless number of substances, the semiconductor industry is expected to rely on an estimated number in the range of hundreds of PFAS, which are crucial in production processes, equipment, and infrastructure. Semiconductors play a vital role in energy-efficient solutions that reduce carbon footprints across various sectors and are key to achieving the EU Green Deal's target of carbon neutrality by 2050.

Nexperia B.V. is vigilant about legal changes concerning PFAS and acknowledges the need to phase them out. Despite this, current technological constraints make it impossible to produce semiconductors without PFAS. Finding and implementing suitable alternatives could take years, with no guarantee that these substitutes will match the performance and reliability of PFAS. Nexperia collaborates with industry groups such as the German Electro and Digital Industry Association (ZVEI) and the European Semiconductor Industry Association (ESIA), which have issued position papers^{1,2} on the topic. Nexperia has identified intentionally added PFAS in its active and end-of-life semiconductor components. An overview is provided in the appendix to this document.

The signature below verifies that the above statements, including any product composition data, are valid and accurate to the best of our knowledge and belief. Nexperia has implemented robust systems to ensure that our products comply with global environmental regulations and laws. In the event of any issues arising from the information in this document, Nexperia's standard terms and conditions of sale shall apply, unless alternate contracts have been agreed upon in writing by both parties.

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¹ <https://www.zvei.org/en/press-media/publications/for-a-risk-based-approach-to-pfas-no-blanket-ban>

² https://www.eusemiconductors.eu/sites/default/files/20230713_ESIASummaryPaper-PFAS.pdf

Appendix

The table below shows ordering codes (12NCs), Nexperia part types, lifecycle status, package type industry code, and the material identified to contain intentionally added PFAS.

Ordering Code	Part Type	Status	Package Type	PFAS Origin
934061921118	IP4773CZ14	end-of-life	SSOP14	adhesive 8290
934061922118	IP4774CZ14	end-of-life	SSOP14	adhesive 8290
935170160112	74LV125DB	end-of-life	SSOP14	adhesive 8290
935170160118	74LV125DB	end-of-life	SSOP14	adhesive 8290
935170220112	74LV86DB	end-of-life	SSOP14	adhesive 8290
935170220118	74LV86DB	end-of-life	SSOP14	adhesive 8290
935174630112	74HCT243DB	end-of-life	SSOP14	adhesive 8290
935174630118	74HCT243DB	end-of-life	SSOP14	adhesive 8290
935189390112	74HCT4075DB	end-of-life	SSOP14	adhesive 8290
935189390118	74HCT4075DB	end-of-life	SSOP14	adhesive 8290
935189780112	74HCT21DB	end-of-life	SSOP14	adhesive 8290
935189780118	74HCT21DB	end-of-life	SSOP14	adhesive 8290
935189840112	74HC243DB	end-of-life	SSOP14	adhesive 8290
935189840118	74HC243DB	end-of-life	SSOP14	adhesive 8290
935189980112	74HC4024DB	end-of-life	SSOP14	adhesive 8290
935189980118	74HC4024DB	end-of-life	SSOP14	adhesive 8290
935190040112	74HC4075DB	end-of-life	SSOP14	adhesive 8290
935190040118	74HC4075DB	end-of-life	SSOP14	adhesive 8290
935190260112	74HCT73DB	end-of-life	SSOP14	adhesive 8290
935190260118	74HCT73DB	end-of-life	SSOP14	adhesive 8290
935206950112	74ABT02DB	end-of-life	SSOP14	adhesive 8290
935206950118	74ABT02DB	end-of-life	SSOP14	adhesive 8290
935206950118	74ABT02DB	end-of-life	SSOP14	adhesive 8290
935206950118	74ABT02DB	end-of-life	SSOP14	adhesive 8290
935208630112	74ABT10DB	end-of-life	SSOP14	adhesive 8290
935208630118	74ABT10DB	end-of-life	SSOP14	adhesive 8290
935209290112	74LVT86DB	end-of-life	SSOP14	adhesive 8290
935209290118	74LVT86DB	end-of-life	SSOP14	adhesive 8290
935165980112	74LV139DB	end-of-life	SSSOP16	adhesive 8290
935165980118	74LV139DB	end-of-life	SSSOP16	adhesive 8290
935175040112	74LV4799DB	end-of-life	SSSOP16	adhesive 8290
935175040118	74LV4799DB	end-of-life	SSSOP16	adhesive 8290
935176210112	74LV367DB	end-of-life	SSSOP16	adhesive 8290
935176210118	74LV367DB	end-of-life	SSSOP16	adhesive 8290
935188750112	74HC4520DB	end-of-life	SSSOP16	adhesive 8290
935188750118	74HC4520DB	end-of-life	SSSOP16	adhesive 8290
935189290112	74HCT283DB	end-of-life	SSSOP16	adhesive 8290
935189290118	74HCT283DB	end-of-life	SSSOP16	adhesive 8290
935189340112	74HC40103DB	end-of-life	SSSOP16	adhesive 8290
935189340118	74HC40103DB	end-of-life	SSSOP16	adhesive 8290
935189350112	74HC40105DB	end-of-life	SSSOP16	adhesive 8290
935189350118	74HC40105DB	end-of-life	SSSOP16	adhesive 8290
935189670112	74HC147DB	end-of-life	SSSOP16	adhesive 8290
935189670118	74HC147DB	end-of-life	SSSOP16	adhesive 8290
935189680118	74HC160DB	end-of-life	SSSOP16	adhesive 8290
935189800112	74HCT221DB	end-of-life	SSSOP16	adhesive 8290
935189800118	74HCT221DB	end-of-life	SSSOP16	adhesive 8290
935189810112	74HC221DB	end-of-life	SSSOP16	adhesive 8290
935189810118	74HC221DB	end-of-life	SSSOP16	adhesive 8290
935189950112	74HCT40103DB	end-of-life	SSSOP16	adhesive 8290
935189950118	74HCT40103DB	end-of-life	SSSOP16	adhesive 8290
935190110112	74HCT4520DB	end-of-life	SSSOP16	adhesive 8290
935190110118	74HCT4520DB	end-of-life	SSSOP16	adhesive 8290
935190280112	74HCT75DB	end-of-life	SSSOP16	adhesive 8290
935190280118	74HCT75DB	end-of-life	SSSOP16	adhesive 8290
935191060112	74LVC109DB	end-of-life	SSSOP16	adhesive 8290
935191060118	74LVC109DB	end-of-life	SSSOP16	adhesive 8290

935193280112	74LV175DB	end-of-life	SSSOP16	adhesive 8290
935193280118	74LV175DB	end-of-life	SSSOP16	adhesive 8290
935242090112	74HC258DB	end-of-life	SSSOP16	adhesive 8290
935242090118	74HC258DB	end-of-life	SSSOP16	adhesive 8290
935080620112	74LV573DB	end-of-life	SSOP20	adhesive 8290
935080620118	74LV573DB	end-of-life	SSOP20	adhesive 8290
935213660112	74LVC1284DB	end-of-life	SSOP20	adhesive 8290
935213660118	74LVC1284DB	end-of-life	SSOP20	adhesive 8290
935277672118	74LVC374ADB/G	end-of-life	SSOP20	adhesive 8290
935069180112	74ABT657DB	end-of-life	SSOP24	adhesive 8290
935069180118	74ABT657DB	end-of-life	SSOP24	adhesive 8290
935180860112	74LVT2952DB	end-of-life	SSOP24	adhesive 8290
935180860118	74LVT2952DB	end-of-life	SSOP24	adhesive 8290
935248840112	74HC652DB	end-of-life	SSOP24	adhesive 8290
935248840118	74HC652DB	end-of-life	SSOP24	adhesive 8290
935250560112	74LVC544ADB	end-of-life	SSOP24	adhesive 8290
935250560118	74LVC544ADB	end-of-life	SSOP24	adhesive 8290
935250580112	74LVC646ADB	end-of-life	SSOP24	adhesive 8290
935250580118	74LVC646ADB	end-of-life	SSOP24	adhesive 8290
935262755115	74AHC1G08GW	end-of-life	TSSOP5	adhesive 8200T
935262755118	74AHC1G08GW	end-of-life	TSSOP5	adhesive 8200T
935262755125	74AHC1G08GW	active	TSSOP5	adhesive 8200T
935262755165	74AHC1G08GW	end-of-life	TSSOP5	adhesive 8200T
935266681115	74LVC1G07GW	end-of-life	TSSOP5	adhesive 8200T
935266681118	74LVC1G07GW	end-of-life	TSSOP5	adhesive 8200T
935266681125	74LVC1G07GW	active	TSSOP5	adhesive 8200T
935266681165	74LVC1G07GW	end-of-life	TSSOP5	adhesive 8200T
935268380115	74LVC1G08GW	end-of-life	TSSOP5	adhesive 8200T
935268380118	74LVC1G08GW	end-of-life	TSSOP5	adhesive 8200T
935268380125	74LVC1G08GW	active	TSSOP5	adhesive 8200T
935268380165	74LVC1G08GW	end-of-life	TSSOP5	adhesive 8200T
935268381115	74LVC1G32GW	end-of-life	TSSOP5	adhesive 8200T
935268381118	74LVC1G32GW	end-of-life	TSSOP5	adhesive 8200T
935268381125	74LVC1G32GW	active	TSSOP5	adhesive 8200T
935268381165	74LVC1G32GW	end-of-life	TSSOP5	adhesive 8200T
935268456115	74LVC1G04GW	end-of-life	TSSOP5	adhesive 8200T
935268456118	74LVC1G04GW	end-of-life	TSSOP5	adhesive 8200T
935268456125	74LVC1G04GW	active	TSSOP5	adhesive 8200T
935268456165	74LVC1G04GW	end-of-life	TSSOP5	adhesive 8200T
935268595115	74LVC1G14GW	end-of-life	TSSOP5	adhesive 8200T
935268595118	74LVC1G14GW	end-of-life	TSSOP5	adhesive 8200T
935268595125	74LVC1G14GW	active	TSSOP5	adhesive 8200T
935268595165	74LVC1G14GW	end-of-life	TSSOP5	adhesive 8200T
935268720115	74LVC1G125GW	end-of-life	TSSOP5	adhesive 8200T
935268720118	74LVC1G125GW	end-of-life	TSSOP5	adhesive 8200T
935268720125	74LVC1G125GW	active	TSSOP5	adhesive 8200T
935268720165	74LVC1G125GW	end-of-life	TSSOP5	adhesive 8200T
935268721115	74LVC1G126GW	end-of-life	TSSOP5	adhesive 8200T
935268721118	74LVC1G126GW	end-of-life	TSSOP5	adhesive 8200T
935268721125	74LVC1G126GW	active	TSSOP5	adhesive 8200T
935268721165	74LVC1G126GW	end-of-life	TSSOP5	adhesive 8200T
935270079125	74LVC1G17GW	active	TSSOP5	adhesive 8200T
935279017125	74AUP1G07GW	active	TSSOP5	adhesive 8200T
935279019125	74AUP1G08GW	active	TSSOP5	adhesive 8200T
935279054125	74AUP1G125GW	active	TSSOP5	adhesive 8200T
935690116125	74LV1T08GW	active	TSSOP5	adhesive 8200T
935286924112	74HC299PW	end-of-life	TSSOP20	adhesive 8290
935286924118	74HC299PW	end-of-life	TSSOP20	adhesive 8290
935273321125	74LVC2G17GW	active	TSSOP6	adhesive 8200T
935273895125	74LVC2G14GW	active	TSSOP6	adhesive 8200T
935274165125	74LVC2G07GW	active	TSSOP6	adhesive 8200T
935276071125	74LVC1G57GW	active	TSSOP6	adhesive 8200T
935277225125	74LVC1G11GW	active	TSSOP6	adhesive 8200T
935277231125	74LVC1G3157GW	active	TSSOP6	adhesive 8200T

935278315125	74LVC1G157GW	active	TSSOP6	adhesive 8200T
935284153125	74AVC1T45GW	active	TSSOP6	adhesive 8200T
935284751125	74LVC1T45GW	active	TSSOP6	adhesive 8200T
935293191125	74LVC1G97GW	active	TSSOP6	adhesive 8200T
935189070112	74HC40105PW	end-of-life	TSSOP16	adhesive 8290
935189070118	74HC40105PW	end-of-life	TSSOP16	adhesive 8290
935262436112	74HCT160PW	end-of-life	TSSOP16	adhesive 8290
935262436118	74HCT160PW	end-of-life	TSSOP16	adhesive 8290
935262437112	74HC160PW	end-of-life	TSSOP16	adhesive 8290
935262437118	74HC160PW	end-of-life	TSSOP16	adhesive 8290
935175030112	74LV4799PW	end-of-life	TSSOP16	adhesive 8290
935175030118	74LV4799PW	end-of-life	TSSOP16	adhesive 8290
935189590112	74HCT283PW	end-of-life	TSSOP16	adhesive 8290
935189590118	74HCT283PW	end-of-life	TSSOP16	adhesive 8290
935193300112	74LV175PW	end-of-life	TSSOP16	adhesive 8290
935193300118	74LV175PW	end-of-life	TSSOP16	adhesive 8290
935260406112	74HCT40103PW	end-of-life	TSSOP16	adhesive 8290
935260406118	74HCT40103PW	end-of-life	TSSOP16	adhesive 8290
935288134112	74AVCH16T245DG	end-of-life	TSSOP48	adhesive 8290
935288134118	74AVCH16T245DG	end-of-life	TSSOP48	adhesive 8290
935271488112	74AVC16835ADGV	end-of-life	TSSOP56	adhesive 8290
935271488118	74AVC16835ADGV	end-of-life	TSSOP56	adhesive 8290
935272239112	74AVC16836ADGV	end-of-life	TSSOP56	adhesive 8290
935272239118	74AVC16836ADGV	end-of-life	TSSOP56	adhesive 8290
935272534112	74AVC16834ADGV	end-of-life	TSSOP56	adhesive 8290
935272534118	74AVC16834ADGV	end-of-life	TSSOP56	adhesive 8290
935284847112	74CBTLV16211DG	end-of-life	TSSOP56	adhesive 8290
935284847118	74CBTLV16211DG	end-of-life	TSSOP56	adhesive 8290
935288145118	74AVC20T245DGV	end-of-life	TSSOP56	adhesive 8290
935288187118	74AVCH20T245DG	end-of-life	TSSOP56	adhesive 8290
935304649118	74CB3Q16211DGV	end-of-life	TSSOP56	adhesive 8290
935270087125	74HC2G126DP	end-of-life	TSSOP8	adhesive 8290
935305162125	74AUP3G34DP	end-of-life	TSSOP8	adhesive 8290
935305672125	74AXP1T57DP	end-of-life	TSSOP8	adhesive 8290
935305803125	74AUP3G07DP	end-of-life	TSSOP8	adhesive 8290
935305803125	74AUP3G07DP	end-of-life	TSSOP8	adhesive 8290
935306973125	74AXP2T3407DP	end-of-life	TSSOP8	adhesive 8290
935307558125	74AUP3G16DP	end-of-life	TSSOP8	adhesive 8290
934059298118	IP4770CZ16	end-of-life	SSOP16	adhesive 8290
934059299118	IP4771CZ16	end-of-life	SSOP16	adhesive 8290
934059699118	IP4772CZ16	end-of-life	SSOP16	adhesive 8290
935270736112	CBT3126DS	end-of-life	SSOP16	adhesive 8290
935270736118	CBT3126DS	end-of-life	SSOP16	adhesive 8290
935272333112	CBT3257DS	end-of-life	SSOP16	adhesive 8290
935272333118	CBT3257DS	end-of-life	SSOP16	adhesive 8290
935272337112	CBTS3257DS	end-of-life	SSOP16	adhesive 8290
935272337118	CBTS3257DS	end-of-life	SSOP16	adhesive 8290
935272580112	CBT3253DS	end-of-life	SSOP16	adhesive 8290
935272580118	CBT3253DS	end-of-life	SSOP16	adhesive 8290
935272603112	CBTS3253DS	end-of-life	SSOP16	adhesive 8290
935272603118	CBTS3253DS	end-of-life	SSOP16	adhesive 8290
935274115112	CBT3251DS	end-of-life	SSOP16	adhesive 8290
935274115118	CBT3251DS	end-of-life	SSOP16	adhesive 8290
935274115118	CBT3251DS	end-of-life	SSOP16	adhesive 8290
935274115118	CBT3251DS	end-of-life	SSOP16	adhesive 8290
934058891118	PRTR5V0U8S	end-of-life	TSSOP10	adhesive 8290
934061159118	IP4280CZ10	end-of-life	TSSOP10	adhesive 8290
934063216118	IP4283CZ10-TT	end-of-life	TSSOP10	adhesive 8290
934063575118	IP4284CZ10-TT	end-of-life	TSSOP10	adhesive 8290
935270731118	CBT3384DK	end-of-life	SSOP24	adhesive 8290
935270732118	CBTD3384DK	end-of-life	SSOP24	adhesive 8290
935270732118	CBTD3384DK	end-of-life	SSOP24	adhesive 8290
935271054118	CBTS3384DK	end-of-life	SSOP24	adhesive 8290
935272774118	CBT6810DK	end-of-life	SSOP24	adhesive 8290

935291638118	CBT3861DK	end-of-life	SSOP24	adhesive 8290
935291685118	CBTD3861DK	end-of-life	SSOP24	adhesive 8290
935294084118	74CBTLV3384DK	end-of-life	SSOP24	adhesive 8290
935294086118	74CBTLVD3384DK	end-of-life	SSOP24	adhesive 8290
935294089118	74CBTLV3861DK	end-of-life	SSOP24	adhesive 8290
935294093118	74CBTLVD3861DK	end-of-life	SSOP24	adhesive 8290
935273909112	CBT3245ADS	end-of-life	SSOP20	adhesive 8290
935273909118	CBT3245ADS	end-of-life	SSOP20	adhesive 8290
935276002112	CBT3244ADS	end-of-life	SSOP20	adhesive 8290
935276002118	CBT3244ADS	end-of-life	SSOP20	adhesive 8290
935293861118	74CBTLV3244DS	end-of-life	SSOP20	adhesive 8290
935293862118	74CBTLVD3244DS	end-of-life	SSOP20	adhesive 8290
935293863118	74CBTLV3245DS	end-of-life	SSOP20	adhesive 8290
935293864118	74CBTLVD3245DS	end-of-life	SSOP20	adhesive 8290
935274717125	74HCT2G126DC	end-of-life	VSSOP8	adhesive 8290
935274721125	74HC2G126DC	end-of-life	VSSOP8	adhesive 8290
935294428125	XC7WT14DC	end-of-life	VSSOP8	adhesive 8290
935307578125	74HC3G16DC	end-of-life	VSSOP8	adhesive 8290
935307583125	74HCT3G16DC	end-of-life	VSSOP8	adhesive 8290
935307655125	74LVC3G16DC	end-of-life	VSSOP8	adhesive 8290
934064669132	IP3253CZ8-4-TTL	end-of-life	DFN1714-8	adhesive 8200T
934064671132	IP4254CZ8-4-TTL	active	DFN1714-8	adhesive 8200T
934064754132	IP4252CZ8-4-TTL	active	DFN1714-8	adhesive 8200T
934064675132	IP4254CZ16-8-TTL	active	DFN3314-16	adhesive 8200T
934064678132	IP4251CZ16-8-TTL	end-of-life	DFN3314-16	adhesive 8200T
934064753132	IP4252CZ16-8-TTL	active	DFN3314-16	adhesive 8200T
934665900328	GAN7R0-150LBE	active	FCLGA3	underfill U8410-302