

Examples of PFAS applications in the agriculture machinery sector

	CAS No.	Substance name	Examples of PFAS applications																	Alternative technologies			Target parts
			Heat Resistance	Cold Resistance	Chemical Resistance	Low-Friction Properties	Oil Resistance	Water Resistance	Low Fuel Permeability	Sealing Capabilities	Weather Resistance	Flexibility	Durability	Equipment Protection	Thickener	Lubricants	Electrical Insulation	Flame retardance	No Information	Yes	No	No information	
1	113114-19-5	Oxetane, 2,2,3,3-tetrafluoro-, homopolymer, fluorinated				X															X		RADIO-AUDIO
																			X			X	SENSOR
2	1478-61-1	Bisphenol AF	X		X		X							X							X		HST, MOTOR, PLUG, PUMP, VALVE, D-RING, OIL SEAL, VALVE
			X		X				X	X				X		X			X			X	CARBURETOR, EXPANSION TAN, FILTER, GASKET, GAUGE,OIL, HEATER, INJECTION, OIL SEAL, RESISTOR, SEALING, SENSOR, TURBOCHARGER, RUBBER PARTS, SPRING
3	163702-07-6	Perfluorobutyl methyl ether																	X			X	AIR-CONDITION, HEATER
4	163702-08-7	Perfluoroisobutyl methyl ether																	X			X	AIR-CONDITION, HEATER
5	185701-88-6	2,3,3,3-Tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy) propoxy]propanoyl fluoride, polymer with trifluoro (trifluoromethyl) oxirane reaction products with 3-(ethenyldimethylsilyl), N-methylbenzeneamine																	X			X	ECU, RAIL COMMON, TURBOCHARGER
6	25067-11-2	Hexafluoropropene tetrafluoroethylene polymer				X													X		X		HST, PUMP, RADIO-AUDIO, CABLE, COMPENSATOR, SENSOR, SWITCH
																			X			X	
7	25190-89-0	1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene and 1,1,2,2-tetrafluoroethene	X	X	X				X												X		SOLENOID, FUEL-HOSE
			X				X												X			X	CARBURETOR, COMPENSATOR, CUSHION, FILTER, FUEL-UNIT, GASKET, INJECTION, PLUG, PUMP, RAIL COMMON, SENSOR, VALVE,
8	26425-79-6	Ethene, 1,1,2,2-tetrafluoro-, polymer with 1,2,2-trifluoro-2-(trifluoromethoxy)ethene																	X			X	AIR-CONDITION, COMPRESSOR, HEATER, VALVE
9	26655-00-5	Perfluoro-3-[(trifluoroethenyl)oxy]propane, polymer with tetrafluoroethene																	X			X	ALTERNATOR, PUMP, ROTOR, VALVE
10	27029-05-6	1-Propene, polymer with 1,1,2,2-tetrafluoroethene																	X		X		PLUG
11	335593-06-1	2-Propenoic acid, 2-methyl-, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl ester, polymer with α-(1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft (9Cl)																	X			X	COVER, SEAT
12	335-67-1	Perfluorooctanoic acid																	X			X	CONTROLLER, METER, SWITCH
13	34454-97-2	2-(N-(Perfluorobutylsulfonyl)-N-methylamino)ethanol																	X			X	COVER, SEAT
14	355-25-9	Perfluorobutane																	X			X	AIR-CONDITION
15	56357-87-0	Ethene, 1,1,2,2-tetrafluoro-, polymer with 1,1-difluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene																	X			X	FILTER, SOLENOID
16	60164-51-4	Krytox 143																	X			X	ECU, LAMP, RAIL COMMON, STARTER, SWITCH, TURBOCHARGER, VALVE, VOLUME
17	67584-59-2	2-(N-Methylperfluorobutanesulfonamido)ethyl methacrylate																	X			X	COVER, SEAT
18	68258-85-5	1-Hexene, 3,3,4,4,5,5,6,6,6-nonafluoro-, polymer with ethene and 1,1,2,2-tetrafluoroethene																	X			X	INJECTION, VOLUME
19	68298-12-4	N-(Methyl)nonafluorobutanesulfonamide																	X			X	COVER, SEAT
20	69991-61-3	Ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd.																	X			X	AIR-CONDITION, HEATER, VALVE
21	811-97-2	1,1,1,2-Tetrafluoroethane																	X		X		AIR-CONDITION
																			X			X	EVAPORATOR, VALVE
22	9002-84-0	Polytetrafluoroethylene	X		X	X		X		X	X		X				X	X			X		FILTER, TURBOCHARGER, BUSH, HST, JOINT, MOTOR, PUMP, SEALING, SENSOR, VALVE, D-RING,
					X	X	X		X	X	X		X		X	X			X			X	AIR-CONDITION, ARM, BACKUP RING, BOLT, BRACKET, BREATHER, CABIN, CABLE, CAM, CAMERA, CAPACITOR, CARBURETOR, CLAMP, CLUTCH, COLLAR, COMPRESSOR, CONDENSER, CONTROLLER, COVER, CYLINDER, DAMPER, ECU, EXPANSION TAN, FAN, FRAME, FRONT AXLE, FUSE, GASKET, HEATER, HITCH, HOLDER, IGNITER, LAMP, LEVER, LINK, METER, MOTOR, OIL SEAL, PANEL, PIILLAR, PISTON, PLATE, PLUG, POWER STEERING, RADIATOR, RADIO-CD, RESISTOR, RING, ROD END, SEAT, SHAFT, SOLENOID, STARTER, STAY, SUPPORT, SWITCH, THERMOSTAT, THROTTLE, THRUST COLLAR, TIRE, VAPORIZER, WIRE HARNESS, CONDENSER
23	9011-17-0	1,1-Difluorethylene-hexafluorpropene polymer	X	X	X				X												X		TURBOCHARGER, PLUG, SENSOR, FUEL-HOSE, ADAPTER, CARBURETOR, EXPANSION TAN, FAN, FILTER, GASKET, GAUGE,OIL, HEATER
			X			X	X			X									X			X	INJECTION, JOINT, NUT, OIL COOLER, PUMP, RESISTOR, SEPARATOR, SWITCH, THROTTLE, VALVE, GASKET
24	94228-79-2	Poly(1-pentene-2,3,3,4,4,5,5-heptafluoro-co-ethene-co-tetrafluoroethene)																	X			X	VALVE