



China Inventory of Severely Restricted Toxic Chemicals (2023)

中国严格限制的有毒化学品名录(2023年)

MEE, MOFCOM and GACC

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China Inventory of Strictly Restricted Toxic Chemicals (2023)						
No.	Chemical substance name		CAS No.	HS Code	Regulatory category	Permitted uses
1	Perfluorooctane sulfonic acid and its salts and perfluorooctane sulfonyl fluoride (PFOS)	Perfluorooctane sulfonic acid	1763-23-1	2904310000	Substances regulated under the <i>Stockholm Convention</i> and the <i>Rotterdam Convention</i> and relevant amendments	Uses for the production of fire-fighting foam (before Dec 31, 2023)
		Ammonium perfluorooctane sulfonate	29081-56-9	2904320000		
		Perfluorooctane sulfonyl fluoride	307-35-7	2904360000		
		Potassium perfluorooctane sulfonate	2795-39-3	2904340000		
		Lithium perfluorooctane sulfonate	29457-72-5	2904330000		
		Diethanolammonium perfluorooctane sulfonate	70225-14-8	2922160000		
		Didecyldimethylammonium perfluorooctane sulfonate	251099-16-8	2923400000		
		Tetraethylammonium perfluorooctane sulfonate	56773-42-3	2923300000		
		N-Ethylperfluorooctane sulfonamide	4151-50-2	2935200000		
		N-Methylperfluorooctane sulfonamide	31506-32-8	2935100000		
		N-Ethyl-N-(2-hydroxyethyl) perfluorooctane sulfonamide	1691-99-2	2935300000		
		N-(2-Hydroxyethyl)-Nmethylperfluorooctane sulfonamide	24448-09-7	2935400000		
		Other salts of perfluorooctane sulfonic acid	-	2904350000		
2	Mercury (mixtures of mercury with other substances, including alloys of mercury, with a mercury concentration of at least 95 percent by weight)		7439-97-6	Mercury 2805400000; precious amalgam 2843900091; lead amalgam 2853909023; other amalgam 2853909024; others shall be classified based on the ingredients and use of specific products.	Substances regulated under the <i>Minamata Convention on Mercury</i>	Uses which are permitted within a given period under the <i>Notice of Implementation of the Minamata Convention on Mercury</i> (MEP Notice No. 38 [2017])
3	Tetramethyl lead		75-74-1	2931100000	Substances regulated under the <i>Rotterdam Convention</i> and relevant amendments	Industrial uses (only used in anti-knock preparations for aviation gasoline and other non-motor gasoline uses)
4	Tetraethyl lead		78-00-2	2931100000	Substances regulated under the <i>Rotterdam Convention</i> and relevant amendments	Industrial uses (only used in anti-knock preparations for aviation gasoline and other non-motor gasoline uses)
5	Polychlorinated terphenyls (PCT)		61788-33-8	2903999030	Substances regulated under the <i>Rotterdam Convention</i> and relevant amendments	Industrial uses
6	Tributyltin compounds (including tributyltin oxide, tributyltin fluoride, tributyltin methacrylate, tributyltin benzoate, tributyltin chloride, tributyltin linoleate and tributyltin naphthenate)		56-35-9 1983-10-4 2155-70-6 4342-36-3 1461-22-9 24124-25-2 85409-17-2	2931200000	Substances regulated under the <i>Rotterdam Convention</i> and relevant amendments	Industrial uses (except for uses in coatings)
7	Short-chain chlorinated paraffins ¹		85535-84-8 68920-70-7 71011-12-6 85536-22-7 85681-73-8 108171-26-2	Without artificial wax properties 3824999991 3824890001; with artificial wax properties 3404900010	Substances regulated under the <i>Stockholm Convention</i> and the <i>Rotterdam Convention</i> and relevant amendments	Uses limited in below before the validity of the specific exemption (December 31, 2023): (1) additives used in the production of conveyor belts in the natural and synthetic rubber industry; (2) spare parts for rubber conveyor belts used in the mining and forestry industries;

					(3) the leather industry, in particular for the greasing of leather; (4) additives for lubricating oils, in particular for use in the engines of automobiles, power generators, and wind energy installations, as well as in refineries for the exploration for oil and gas drilling and refineries for the production of diesel fuel; (5) outdoor decorative lamps; (6) waterproof and flame-retardant paints; (7) adhesives; (8) metal working; (9) secondary plasticisers for flexible polyvinyl chloride (except process use in toys and children's products).
8	Decabromodiphenyl ether	1163-19-5	2909309018	Substances regulated under the <i>Stockholm Convention</i> and the <i>Rotterdam Convention</i> and relevant amendments	Uses limited in below before the validity of the specific exemption (December 31, 2023): (1) textile products (excluding clothing and toys) requiring flame-retardant characteristics; (2) additives for plastic casings and components for domestic heating appliances, irons, fans, immersion heaters, containing or in direct contact with electrical parts, or subject to flame-retardant standards, with a density of less than 10 per cent by weight of the part; and (3) polyurethane foams used for building insulation.
9	Perfluorooctanoic acid and its salts and their related compounds (PFOA) ²	—	Perfluorooctanoic acid 2915900015; Perfluorooctanoic acid and its salts and their related compounds 2843290020 2843290030 2843900050 2843900092 2903490010 2903780010 2903799030 2905590050 2909199020 2909440020 2909499020 2910900030 2913000020 2915390017 2915709010 2915900030 2916129010 2916140020	Substances regulated under the <i>Rotterdam Convention</i> and relevant amendments	Uses limited in the following: (1) photolithography or etching processes in semiconductor manufacturing; (2) photographic coatings for film; (3) oil and water repellent textiles to protect workers from health and safety risks posed by hazardous liquids; (4) invasive and implantable medical devices; (5) the use of perfluorooctyl iodide (PFOI) to produce perfluorobromooctane (PFOB) for pharmaceutical production purposes; (6) the manufacture of polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF) for the production of high-performance and corrosion-resistant gas filtration membranes, water filtration membranes, and cloth membranes for medical use, industrial waste heat exchanger equipment, and industrial sealants capable of preventing the leakage of volatile organic compounds (VOCs) and

			2916190020 2917190020 2920900030 2922199050 2923900020 2923900030 2924199050 2924210030 2924299070 2929909020 2930909094 2931590080 2931900040 2933399072 2933599070 2935900038 3824999994 3904690010 3906909010 3907299030; others shall be classified based on the ingredients and use of specific products.		PM2.5 particles, among other products. Polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF); (7) Polyperfluoroethylene propylene (FEP) for the production of high-voltage wires and cables for power transmission.
Note:					
1. Short-chain chlorinated paraffins refer to straight-chain chlorinated hydrocarbons, with chain lengths ranging from C10 to C13 and a content of chlorine greater than 48 percent by weight, including mixtures containing SCCPs at concentrations greater than or equal to 1 percent by weight)					
2. PFOAs are: (i) perfluorooctanoic acid (335-67-1), including any branched-chain isomers thereof; (ii) perfluorooctanoic acid salts; (iii) perfluorooctanoic acid-related compounds, i.e. any substances that degrade to perfluorooctanoic acid, including any substance (salts and polymers included) containing a linear or branched perfluoro group in which the (C7F15)C moiety is one of its structural elements. The following compounds are not listed as PFOA-related compounds: (i) C8F17-X, where X=F, Cl, Br; (ii) Fluoropolymers covered by CF3[CF2]n-R', where R'=any group, n>16; (iii) perfluoroalkyl carboxylic acids and phosphonic acids (including their salts, lipids, halides and anhydrides) with ≥8 perfluorinated carbon atoms; (iv) with ≥9 full fluorinated carbon atoms of perfluoroalkane sulfonic acids (including their salts, lipids, halides and anhydrides); (v) perfluorooctane sulfonic acid and its salts and perfluorooctanesulfonyl fluoride.					
3. “Severely restricted chemicals” refer to chemicals which are prohibited from use due to their damage to human health and the environment but are allowed to be used upon authorization under certain special circumstances.					
4. “Toxic chemicals” refer to chemicals which can damage human health and the environment through environmental accumulation, bioaccumulation, biotransformation or chemical reactions in the environment or cause severe damage to human health through any exposure or feature potential environmental hazards.					
5. CAS number refers to the Chemical Abstracts Service (CAS) registration number, which is a unique number assigned by the Chemical Abstracts Service to each chemical that appears in the literature.					
6. The commodity range is based on the chemical name, and the HS code is used as a reference for customs declaration.					
7. Laboratory-scale research or use as a reference standard is also considered as permitted use.					



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