

Table 1. Maximum Permissible limits for POPs in raw materials, materials, products, goods and equipment

QCVN.....:2022/BTNMT 'National Technical Regulation on Thresholds for Persistent Organic Pollutants in Articles, Products, Commodities and Equipment', Table 1 'Maximum permissible limits' (per draft technical regulation text)			
Entry	POP Substance	Scope	Maximum Permissible Limit
1.1 and 1.2	Tetra-BDE and penta-BDE	Raw materials, materials, products and goods in the following fields: <ul style="list-style-type: none"> - Leather/imitation leather materials, polymer insulation materials and electronic components used in vehicles - Automotive interiors (molds and foam plates for automotive parts, seats and dashboards) - Upholstery materials, furniture coatings, foaming components in insulation polymers - Mattress materials, protective clothing, carpet, curtains, upholster, tent materials - Construction materials: filters made of porous materials, insulating panels, insulation, plastic insulation, rigid foam materials for pipes - Polyurethane foam in packaging materials 	<ul style="list-style-type: none"> - 10 mg/kg each of tetra-, penta-, hexa-, hepta- and deca-BDE in substances - 500 mg/kg in mixtures or articles (sum of tetra-, penta-, hexa-, hepta- and deca-BDE)
2.1 and 2.2	Hexa-BDE and hepta-BDE	Raw materials, materials, products and goods in the following fields: <ul style="list-style-type: none"> - Flame retardants - Vehicles (plastic components, thermoplastics, polyurethane foam (foam) in seats/cushions - Materials or additives in the production of polymers, especially acrylonitrile butadiene styrene (ABS) 	
3	Deca-BDE	Raw materials, materials, products, goods and equipment in the following fields: <ul style="list-style-type: none"> - Flame retardant additives: plastics, polymers, composites, textiles, adhesives, coatings - Flexible insulation materials used in the manufacture of computer cases, televisions, wires and cables and non-metallic pipes - Additives in plastics for the manufacture of household appliances (heaters, irons, fans, immersion hot water heaters), electrical appliances (computers, televisions), electrical wires and cables, pipes and carpets - Polyurethane foam insulations in construction - Vehicle parts (insulation, wiring, upholstery) 	
4	Perfluorooctane sulfonic acids (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF) (C ₈ F ₁₇ SO ₂ X)	Raw materials, materials, products, goods and equipment in the following fields: <ul style="list-style-type: none"> - Insecticide to control termites and red fire ants - Insect baits to control leafcutter ants (genera Atta spp. and Acromyrmex spp.) - Firefighting foam - Aviation hydraulic oil - Plating (hard metal plating) - Coated paper - Textiles - Leather and carpets - Rubber and plastics - Paints - Printing inks - Household appliances; electronic equipment and components for office equipment, semiconductors, photography 	<ul style="list-style-type: none"> - 10 mg/kg in substances or mixtures - 0.1% in substances in semi-finished products or articles, or parts thereof - < 1µg/m² for coated textiles or other coated materials
5	Hexabromocyclododecane (HBCDD)	Raw materials, materials, products, goods and equipment in the following fields: <ul style="list-style-type: none"> - Foam/insulation materials (polystyrene – EPS and XPS)/construction/building insulation panels - Insulation plastics/plastics in electrical and electronic equipment 	<ul style="list-style-type: none"> - 100 mg/kg in substances, mixtures and articles
6	Short-chain chlorinated paraffins (SCCPs)	Raw materials, materials, products and goods in the following fields: <ul style="list-style-type: none"> - Additives in the production of plywood, industrial plywood, rubber, inks, paints, adhesives and surface coatings - Leather surface treatment active ingredient (for tanning) - Additives in the production of lubricating oils or cutting emulsions in metalworking - Ingredient in fireproof paints and waterproof paints - Tubes for outdoor decorative light bulbs - Secondary plasticizer in polyvinyl chloride, except in toys and children's products 	<ul style="list-style-type: none"> - < 1% in substances or mixtures - < 0.15% in articles
7	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	Raw materials, materials, products, goods and equipment in the following fields: <ul style="list-style-type: none"> - Firefighting foam - Oil, grease, stain and water repellent in textiles, photography, high voltage electrical cables - Food packaging/paper wrappers - Materials containing polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF) - Materials containing fluorinated ethylene propylene (FEP) for the manufacture of high-voltage wires and cables for power transmission - Materials containing fluoroelastomers for the manufacture of plastic O-rings, belts and accessories for automotive interiors - Implantable medical devices - Pharmaceuticals 	<ul style="list-style-type: none"> - ≤ 0.025 mg/kg PFOA or its salts in substances, mixtures or articles - ≤ 1 mg/kg PFOA and its salts in PTFE micropowders - ≤ 1 mg/kg PFOA-related compounds in substances, mixtures or articles - ≤ 20 mg/kg PFOA-related compounds used as intermediates/additives

Abbreviations:

Entry	Abbreviation	Chemical Name
1	Tetra-BDE	Tetrabromodiphenyl ether
2	Penta-BDE	Pentabromodiphenyl ether
3	Hexa-BDE	Hexabromodiphenyl ether
4	Hepta-BDE	Heptabromodiphenyl ether
5	Deca-BDE	Decabromodiphenyl ether