

APPENDIX 4

Product Group Codes

- Notes:**
1. **Shaded Product Group Codes (PGCs) are not recommended for OCPF declarations.**
 2. **Typical chemicals included in each PGC description are for illustrative purposes only and do not represent a complete list of all chemicals within the group, nor does it imply that any of these specific examples are produced at the plant site.**

Code	Description
	Chemicals and related products
511	Hydrocarbons and their halogenated, sulfonated, nitrated or nitrosated derivatives Typical chemicals include: aliphatic hydrocarbons as ethylene, propylene, butylene; cyclic hydrocarbons as benzene, toluene, xylene, ethylbenzene, cumene; ethylene dichloride, vinyl chloride, trichloroethylene, 1-chlorododecane, tetrafluorethylene, nitrobenzene, 2,4-dinitrotoluene, hexafluoropropene
512	Alcohols, phenols, phenol-alcohols, and their halogenated, sulfonated, nitrated or nitrosated derivatives, except ethanol and methanol (see code 519) Typical chemicals include: fatty alcohols, glycerol, propanol, butanol, D-glucitol (sorbitol), phenol
513	Carboxylic acids and their esters, anhydrides, acyl halides, peroxides and peroxyacids; their halogenated, sulfonated, nitrated or nitrosated derivatives and their salts Typical chemicals include: acetic acid and its salts, formic acid, its salts and esters, lactic acid, tartaric acid, citric acid and their salts and esters, isophthaloyl chloride, terephthaloyl chloride, methyl acetate, ethyl acetate, <i>n</i> -butyl acetate, malic acid, fumaric acid, maleic anhydride, phthalic anhydride, acetic anhydride, heptafluorobutyric peroxyacid, bis(dodecafluoroheptanoyl) peroxide
514	Nitrogen-function compounds, except urea (see code 519) Typical chemicals include: octylated diphenylamine, nonylated diphenylamine, ethylenediamine, cyclohexylamine, aniline, 1,3-diaminocyclohexane, diphenylamine, azodicarbonamide, toluene diisocyanate, organic cyanides, methylene diphenyl isocyanate, acrylonitrile
515	Heterocyclic compounds (except cyclic ethers), and sulfonamides Typical chemicals include: thiophene and <i>N</i> -butyl benzene sulfonamide
516	Other organic chemicals, except formaldehyde, ethyl <i>tert</i> -butyl ether (ETBE) and methyl <i>tert</i> -butyl ether (MTBE) (see code 519) Typical chemicals include: ethers, dialkyl peroxides, methylethylketone, furfural, dimethyl carbonate, tetraalkyl thiuramdisulfide, trimethyl phosphate, ethylene oxide

519	Methanol, ethanol, urea, formaldehyde, ethyl <i>tert</i> -butyl ether (ETBE) methyl <i>tert</i> -butyl ether (MTBE), surfactants based on sulfonic acids and fatty acid salts
522	Inorganic chemical elements, oxides and halogen salts
523	Salts and peroxy salts, of inorganic acids; metal complexes of organic and inorganic ligands Typical chemicals include: sodium cyanide, ammonium cyanide, ammonium carbonate, ammonium bicarbonate, iron pentacarbonyl and metal complexes of triphenylphosphine
524	Organometallic compounds Typical chemicals include: dichloro(cycloocta-1,5-diene)platinum(II), phenylsilver, butyllithium
525	Radioactive and associated materials
531	Synthetic organic colouring matter and colour lakes, and preparations based thereon Typical chemicals include: azo based dyes, naphthazarine based dyes (dibromonaphthazarins), triphenylmethane dyes (TPM), quinoline, anthraquinone, pyrene, sulfanilic acid, fluorescent brightening agents, luminophores
532	Dyeing and tanning extracts, and synthetic tanning materials
533	Pigments, paints, varnishes and related materials
541	Medicinal and pharmaceutical products, including drug substances and active pharmaceutical ingredients other than medicaments of code 542 Typical chemicals include: cephalosporins, amino acid derivatives, synthetic glycosides, atracurium besilate, alkylidene nitrile, tinidazole, nimesulide, butoconazole, flutamide, famotidine, penicillins or derivatives, streptomycins or derivatives, other antibiotics, synthetic insulin, phenothiazine compounds
542	Medicaments (including veterinary medicaments)
551	Essential oils, perfume and flavour materials
553	Perfumery, cosmetic or toilet preparations (excluding soaps)
554	Soap, cleansing and polishing preparations, except surfactants based on sulfonic acids and fatty acid salts (see code 519)
562	Synthetic Fertilizers
571	Polymers of ethylene, in primary forms
572	Polymers of styrene, in primary forms
573	Polymers of vinyl chloride or of other halogenated olefins in primary forms
574	Polyacetals, other polyethers and epoxide resins, in primary forms; Polycarbonates, alkyd resins, polyallyl esters and other polyesters
575	Other plastics, in primary forms
579	Waste, parings and scrap, of plastics

581	Tubes, pipes and hoses, and fittings therefor, of plastics
582	Plates, sheets, film, foil and strip, of plastics
583	Monofilament of which any cross-sectional dimension exceeds 1 mm, rods, sticks and profile shapes, whether or not surface-worked but not otherwise worked, of plastics
591	<p>Insecticides, rodenticides, fungicides, herbicides, anti-sprouting products and plant-growth regulators, disinfectants and similar products, put up in forms or packings for retail sale or as preparations or articles (e.g. sulfur-treated bands, wicks and candles, and fly papers)</p> <p>Typical chemicals include: cypermethrin, glyphosate and derivatives, acephate, methamidophos, pyrethroid, dimethoate, malathion, triazoles, parathion, trifluralin, atrazine, diuron (DCMU), endosulfan, phenoxy family herbicides, propanil, sulfosulfuron, fipronil, chloramine-T, phoxim, zineb, tebuconazole, monocrotophos, diquat, paraquat, acifluorfen, lactofen, clomazone, thiocarbamates and dithiocarbamates.</p>
592	Starches, inulin and wheat gluten; albuminoidal substances; glues
593	Explosives and pyrotechnic products
597	<p>Prepared additives for mineral oils and the like; prepared liquids for hydraulic transmission; anti-freezing preparations and prepared de-icing fluids; lubricating preparations</p> <p>Typical chemicals include: di-2-ethylhexyl carbonate, di-3,5,5-trimethylhexyl carbonate</p>
598	Miscellaneous chemical products
599	Others