

Notes

1. Except where the context otherwise requires, the headings of this chapter apply only to:
 - (a) Separate chemical elements and separate chemically defined compounds, whether or not containing impurities;
 - (b) The products mentioned in (a) above dissolved in water;
 - (c) The products mentioned in (a) above dissolved in other solvents provided that the solution constitutes a normal and necessary method of putting up these products adopted solely for reasons of safety or for transport and that the solvent does not render the product particularly suitable for specific use rather than for general use;
 - (d) The products mentioned in (a), (b) or (c) above with an added stabilizer necessary for their preservation or transport;
 - (e) The products mentioned in (a), (b), (c) or (d) above with an added antidusting agent or a coloring substance added to facilitate their identification or for safety reasons, provided that the additions do not render the product particularly suitable for specific use rather than for general use.
2. In addition to dithionites and sulfoxylates, stabilized with organic substances (heading 2831), carbonates and peroxocarbonates of inorganic bases (heading 2836), cyanides, cyanide oxides and complex cyanides of inorganic bases (heading 2837), fulminates, cyanates and thiocyanates, of inorganic bases (heading 2838), organic products included in headings 2843 to 2846, and carbides (heading 2849), only the following compounds of carbon are to be classified in this chapter:
 - (a) Oxides of carbon, hydrogen cyanide and fulminic, isocyanic, thiocyanic and other simple or complex cyanogen acids (heading 2811);
 - (b) Halide oxides of carbon (heading 2812);
 - (c) Carbon disulfide (heading 2813);
 - (d) Thiocarbonates, selenocarbonates, tellurocarbonates, selenocyanates, tellurocyanates, tetrathiocyanatodiamminochromates (reineckates) and other complex cyanates, of inorganic bases (heading 2842);
 - (e) Hydrogen peroxide, solidified with urea (heading 2847), carbon oxysulfide, thiocarbonyl halides, cyanogen, cyanogen halides and cyanamide and its metal derivatives (heading 2851) other than calcium cyanamide, whether or not pure (chapter 31).
3. Subject to the provisions of note 1 to section VI, this chapter does not cover:
 - (a) Sodium chloride or magnesium oxide, whether or not pure, or other products of section V;
 - (b) Organo-inorganic compounds other than those mentioned in note 2 above;
 - (c) Products mentioned in note 2, 3, 4 or 5 to chapter 31;
 - (d) Inorganic products of a kind used as luminophores, of heading 3206;
 - (e) Artificial graphite (heading 3801); products put up as charges for fire-extinguishers or put up in fire-extinguishing grenades, of heading 3813; ink removers put up in packings for retail sale, of heading 3823; cultured crystals (other than optical elements) weighing not less than 2.5 g each, of the halides of the alkali or alkaline-earth metals, of heading 3823;
 - (f) Precious or semiprecious stones (natural, synthetic or reconstructed) or dust or powder of such stones (headings 7102 to 7105), or precious metals or precious metal alloys of chapter 71;
 - (g) The metals, whether or not pure, or metal alloys of section XV; or
 - (h) Optical elements, for example, of the halides of the alkali or alkaline-earth metals (heading 9001).
4. Chemically defined complex acids consisting of a nonmetal acid of subchapter II and a metal acid of subchapter IV are to be classified in heading 2811.
5. Headings 2826 to 2842 apply only to metal or ammonium salts or peroxy salts.
Except where the context otherwise requires, double or complex salts are to be classified in heading 2842.

6. Heading 2844 applies only to:

- (a) Technetium (atomic No. 43), promethium (atomic No. 61), polonium (atomic No. 84) and all elements with an atomic number greater than 84;
- (b) Natural or artificial radioactive isotopes (including those of the precious metals or of the base metals of sections XIV and XV), whether or not mixed together;
- (c) Compounds, inorganic or organic, of these elements or isotopes, whether or not chemically defined, whether or not mixed together;
- (d) Alloys, dispersions (including cermets), ceramic products and mixtures containing these elements or isotopes or inorganic or organic compounds thereof and having a specific radioactivity exceeding 0.002 microcurie per gram;
- (e) Spent (irradiated) fuel elements (cartridges) of nuclear reactors;
- (f) Radioactive residues whether or not usable.

The term "isotopes", for the purposes of this note and of the wording of headings 2844 and 2845, refers to:

- (i) Individual nuclides, excluding, however, those existing in nature in the monoisotopic state;
- (ii) Mixtures of isotopes of one and the same element, enriched in one or several of the said isotopes, that is, elements of which the natural isotopic composition has been artificially modified.

7. Heading 2848 includes copper phosphide (phosphor copper) containing more than 15 percent by weight of phosphorus.

8. Chemical elements (for example, silicon and selenium) doped for use in electronics are to be classified in this chapter, provided that they are in forms unworked as drawn, or in the form of cylinders or rods. When cut in the form of discs, wafers or similar forms, they fall in heading 3818.

Statistical Note

- 1. For the purposes of heading 2804, the term "m³" (cubic meter) means a standard cubic meter measured at 21°C at 760 mm (1013 millibars) pressure.

I. CHEMICAL ELEMENTS

2801	Fluorine, chlorine, bromine and iodine:				
2801.10.00 00 5	Chlorine.....	kg.....	Free		25%
2801.20.00 00 3	Iodine.....	kg.....	Free		Free
2801.30	Fluorine; bromine:				
2801.30.10 00 9	Fluorine.....	kg.....	3.7%	Free (A, E, IL) 1.4% (CA)	25%
2801.30.20 00 7	Bromine.....	kg.....	4.4¢/kg	Free (E, IL) 1.7¢/kg (CA)	22¢/kg
2802.00.00 00 6	Sulfur, sublimed or precipitated; colloidal sulfur.....	t.....	Free		Free
2803.00.00	Carbon (carbon blacks and other forms of carbon not elsewhere specified or included).....		Free		20%
10 3	Carbon black.....	kg			
50 4	Other.....	kg			
2804	Hydrogen, rare gases and other nonmetals:				
2804.10.00 00 2	Hydrogen.....	thousand m ³	3.7%	Free (A, CA, E, IL)	25%
	Rare gases:				
2804.21.00 00 9	Argon.....	thousand m ³	3.7%	Free (A, CA, E, IL)	25%
2804.29.00	Other.....		3.7%	Free (A, CA, E, IL)	25%
10 9	Helium.....	thousand m ³			
50 0	Other.....	thousand m ³			
2804.30.00 00 8	Nitrogen.....	thousand m ³	3.7%	Free (A, CA, E, IL)	25%
2804.40.00 00 6	Oxygen.....	thousand m ³	3.7%	Free (A, CA, E, IL)	25%
2804.50.00 00 3	Boron; tellurium.....	kg.....	Free		25%
2804.61.00 00 0	Silicon: Containing by weight not less than 99.99 percent of silicon.....	kg.....	3.7%	Free (E, IL) 1.4% (CA)	25%
2804.69	Other:				
2804.69.10 00 0	Containing by weight less than 99.99 percent but not less than 99 percent of silicon.....	kg.....v	5.3%	Free (A*, E, IL) 3.7% (CA)	21%
2804.69.50 00 1	Other.....	kg.....v	9%	Free (E, IL) 6.3% (CA)	45%
2804.70.00 00 9	Phosphorus.....	kg.....	Free		17.6¢/kg
2804.80.00 00 7	Arsenic.....	kg.....	Free		13.2¢/kg
2804.90.00 00 5	Selenium.....	kg.....	Free		Free
2805	Alkali or alkaline-earth metals; rare-earth metals, scandium and yttrium, whether or not intermixed or interalloyed; mercury:				
	Alkali metals:				
2805.11.00 00 0	Sodium.....	kg.....	5.3%	Free (E, IL) 2.1% (CA)	25%
2805.19.00 00 2	Other.....	kg.....	6.6%	Free (E, IL) 2.6% (CA)	25%
	Alkaline-earth metals:				
2805.21.00 00 8	Calcium.....	kg.....	3%	Free (CA, E, IL)	25%
2805.22	Strontium and barium:				
2805.22.10 00 5	Strontium.....	kg.....	3.7%	Free (A, CA, E, IL)	25%
2805.22.20 00 3	Barium.....	kg.....	Free		25%
2805.30.00 00 7	Rare-earth metals, scandium and yttrium, whether or not intermixed or interalloyed.....	kg.....	70.5¢/kg	Free (CA, E, IL)	\$4.41/kg
2805.40.00 00 5	Mercury.....	kg.....	16.5¢/kg	Free (A, E, IL) 5.6¢/kg (CA)	55.1¢/kg

II. INORGANIC ACIDS AND INORGANIC OXYGEN
COMPOUNDS OF NONMETALS

2806		Hydrogen chloride (Hydrochloric acid); chloro- sulfuric acid:				
2806.10.00	00 0	Hydrogen chloride (Hydrochloric acid).....	t.....	Free		Free
2806.20.00	00 8	Chlorosulfuric acid.....	kg.....	4.2%	Free (A,E,IL) 1.6% (CA)	25%
2807.00.00	00 1	Sulfuric acid; oleum.....	t.....	Free		Free
2808.00.00		Nitric acid; sulfonitric acids.....		Free		Free
	10 8	Nitric acid.....	kg			
	20 6	Sulfonitric acids.....	kg			
2809		Diphosphorus pentaoxide; phosphoric acid and polyphosphoric acids:				
2809.10.00	00 7	Diphosphorus pentaoxide.....	kg.....	Free		25%
2809.20.00		Phosphoric acid and polyphosphoric acids.....		Free		Free
		Phosphoric acid:				
		Fertilizer grade:				
	10 3	Containing less than 65 percent available diphosphorus penta- oxide (P ₂ O ₅) equivalents.....	t			
	20 1	Other.....	t			
	30 9	Other.....	t			
	40 7	Polyphosphoric acids.....	t			
2810.00.00	00 6	Oxides of boron; boric acids.....	t.....	1.5%	Free (A,E,IL) 0.6% (CA)	8.5%
2811		Other inorganic acids and other inorganic oxygen compounds of nonmetals:				
		Other inorganic acids:				
2811.11.00	00 2	Hydrogen fluoride (Hydrofluoric acid)....	kg.....	Free		Free
2811.19		Other:				
2811.19.10	00 2	Arsenic acid.....	kg.....	3.1¢/kg	Free (A,E,IL) 1.2¢/kg (CA)	6.6¢/kg
2811.19.50		Other.....		4.2%	Free (A,E,IL) 1.6% (CA)	25%
	10 1	Sulfamic acid.....	kg			
	50 2	Other.....	kg			
		Other inorganic oxygen compounds of nonmetals:				
2811.21.00	00 0	Carbon dioxide.....	t.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%
2811.22		Silicon dioxide:				
2811.22.10	00 7	Synthetic silica gel.....	kg.....	3.7%	Free (A,CA,E,IL)	25%
2811.22.50	00 8	Other.....	kg.....	Free		Free
2811.23.00	00 8	Sulfur dioxide.....	kg.....	4.2%	Free (A,E,IL) 1.6% (CA)	25%
2811.29		Other:				
2811.29.10	00 0	Arsenic trioxide.....	kg.....	Free		Free
2811.29.20	00 8	Selenium dioxide.....	kg.....	Free		Free
2811.29.50	00 1	Other.....	kg.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%

III. HALOGEN OR SULFUR COMPOUNDS OF NONMETALS

2812		Halides and halide oxides of nonmetals:				
2812.10		Chlorides and chloride oxides:				
2812.10.10	00 0	Phosphorus pentachloride.....	kg.....	Free		25%
2812.10.50		Other.....		3.7%	Free (A,E,IL) 1.4% (CA)	25%
	10 9	Phosphorus oxychloride and trichloride.....	kg			
	50 0	Other.....	kg			
2812.90.00	00 5	Other.....	kg.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%
2813		Sulfides of nonmetals; commercial phosphorus trisulfide:				
2813.10.00	00 1	Carbon disulfide.....	kg.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%
2813.90		Other:				
2813.90.10	00 2	Of arsenic.....	kg.....	Free		Free
2813.90.20	00 0	Of phosphorus.....	kg.....	Free		25%
2813.90.50	00 3	Other.....	kg.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%

IV. INORGANIC BASES AND OXIDES, HYDROXIDES
AND PEROXIDES OF METALS

2814		Ammonia, anhydrous or in aqueous solution:				
2814.10.00	00 0	Anhydrous ammonia.....	t.....	Free		Free
2814.20.00	00 8	Ammonia in aqueous solution.....	t.....v	Free		Free
		ammonia content..	t			
2815		Sodium hydroxide (Caustic soda); potassium hydroxide (Caustic potash); peroxides of sodium or potassium:				
		Sodium hydroxide (Caustic soda):				
2815.11.00	00 8	Solid.....	kg.....	Free		1.1¢/kg
2815.12.00	00 7	In aqueous solution (Soda lye or liquid soda).....	kg.....v	Free		1.1¢/kg
		sodium hydroxide content..	kg			
2815.20.00	00 7	Potassium hydroxide (Caustic potash).....	kg.....	Free		2.2¢/kg
2815.30.00	00 5	Peroxides of sodium or potassium.....	kg.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%
2816		Hydroxide and peroxide of magnesium; oxides, hydroxides and peroxides, of strontium or barium:				
2816.10.00	00 8	Hydroxide and peroxide of magnesium.....	kg.....	3.1%	Free (A,E,IL) 1.2% (CA)	25%
2816.20.00	00 6	Oxide, hydroxide and peroxide of strontium....	kg.....	4.2%	Free (A,E,IL) 1.6% (CA)	25%
2816.30.00	00 4	Oxide, hydroxide and peroxide of barium.....	kg.....	2%	Free (A,E,IL) 0.8% (CA)	10.5%
2817.00.00	00 9	Zinc oxide; zinc peroxide.....	kg.....	Free		5.5%
2818		Aluminum oxide (including artificial corundum); aluminum hydroxide:				
		Artificial corundum:				
2818.10		Crude.....	t.....	Free		Free
2818.10.10	00 4	In grains, or ground, pulverized or refined.....	kg.....	0.7¢/kg	Free (A,E,IL) 0.2¢/kg (CA)	2.2¢/kg
2818.10.20	00 2					
2818.20.00	00 4	Other aluminum oxide.....	kg.....	Free		1.1¢/kg
2818.30.00	00 2	Aluminum hydroxide.....	kg.....	Free		1.1¢/kg

2819		Chromium oxides and hydroxides:						
2819.10.00	00 5	Chromium trioxide.....	kg.....	3.7%	Free (A,E,IL)	25%		
					1.4% (CA)			
2819.90.00	00 8	Other.....	kg.....	3.7%	Free (A,E,IL)	25%		
					1.4% (CA)			
2820		Manganese oxides:						
2820.10.00	00 2	Manganese dioxide.....	kg.....	4.7%	Free (A,E,IL)	25%		
					1.8% (CA)			
2820.90.00	00 5	Other.....	kg.....	4.7%	Free (A,E,IL)	25%		
					1.8% (CA)			
2821		Iron oxides and hydroxides; earth colors containing 70 percent or more by weight of combined iron evaluated as Fe ₂ O ₃ :						
2821.10.00		Iron oxides and hydroxides.....		3.7%	Free (A,E,IL)	25%		
					1.4% (CA)			
		Synthetic pigments:						
	10 9	Black.....	kg					
	20 7	Red.....	kg					
	30 5	Yellow.....	kg					
	40 3	Other.....	kg					
	50 0	Other.....	kg					
2821.20.00	00 9	Earth colors.....	kg.....	5.8%	Free (A,E,IL)	20%		
					2.3% (CA)			
2822.00.00	00 2	Cobalt oxides and hydroxides; commercial cobalt oxides.....	kg.....	2.6¢/kg	Free (A,E,IL)	44¢/kg		
					1¢/kg (CA)			
2823.00.00	00 1	Titanium oxides.....	kg.....	6%	Free (A,E,IL)	30%		
					4.2% (CA)			
2824		Lead oxides; red lead and orange lead:						
2824.10.00	00 8	Lead monoxide (litharge, massicot).....	kg.....	2.4% <u>1</u> /	Free (A,E,IL)	12%		
					0.9% (CA)			
2824.20.00	00 6	Red lead and orange lead.....	kg.....	3.4% <u>2</u> /	Free (A,E,IL)	12.5%		
					1.3% (CA)			
2824.90		Other:						
2824.90.10	00 9	Lead suboxide (leady litharge).....	kg.....	15%	Free (A,E,IL)	30%		
					6% (CA)			
2824.90.50	00 0	Other.....	kg.....	4.8%	Free (A,E,IL)	30%		
					1.9% (CA)			
2825		Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides:						
2825.10.00	00 7	Hydrazine and hydroxylamine and their inorganic salts.....	kg.....	3.7%	Free (A,E,IL)	25%		
					1.4% (CA)			
2825.20.00	00 5	Lithium oxide and hydroxide.....	kg.....	3.7%	Free (A,E,IL)	25%		
					1.4% (CA)			
2825.30.00		Vanadium oxides and hydroxides.....		16%	Free (A,E,IL)	40%		
					6.4% (CA)			
	10 1	Vanadium pentoxide (anhydride).....	kg v					
		vanadium content..	kg					
	50 2	Other.....	kg v					
		vanadium content..	kg					
2825.40.00	00 1	Nickel oxides and hydroxides.....	kg.....	Free		Free		
2825.50		Copper oxides and hydroxides:						
2825.50.10	00 6	Cupric oxide.....	kg.....	4.3%	Free (A,E,IL)	31%		
					1.7% (CA)			
2825.50.20	00 4	Cuprous oxide.....	kg.....	5%	Free (A,E,IL)	39.5%		
					2% (CA)			
2825.50.30	00 2	Copper hydroxides.....	kg.....	3.9%	Free (A,E,IL)	32.5%		
					1.5% (CA)			
2825.60.00	00 6	Germanium oxides and zirconium dioxide.....	kg.....	3.7%	Free (A,E,IL)	25%		
					1.4% (CA)			
2825.70.00	00 4	Molybdenum oxides and hydroxides.....	kg.....	3.2%	Free (A,E,IL)	20.5%		
					1.2% (CA)			
2825.80.00	00 2	Antimony oxides.....	kg.....	Free		4.4¢/kg		

1/ Duty on litharge temporarily increased. See heading 9903.28.01.

2/ Duty on red lead may be modified. See heading 9903.28.02.

2825 (con.)	Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides (con.):			
2825.90	Other:			
2825.90.10	00 8	Beryllium oxide and hydroxide.....	kg..... 3.7%	Free (A,E,IL) 25% 1.4% (CA)
2825.90.15	00 3	Niobium oxide.....	kg..... 3.7%	Free (A*,E,IL) 25% 1.4% (CA)
2825.90.20	00 6	Tin oxides.....	kg..... 4.2%	Free (A,E,IL) 25% 1.6% (CA)
2825.90.30	00 4	Tungsten oxides.....	kg.....v 10%	Free (E,IL) 45.5% 4% (CA)
2825.90.60		Other.....	3.7% <u>1/</u>	Free (A,E,IL) 25% 1.4% (CA)
	10 5	Provided for in subheadings 9903.28.15 through 9903.28.25.....		
			kg v	
			tungsten content..	
	90 8	Other.....	kg	

V. SALTS AND PEROXYSALTS, OF INORGANIC ACIDS AND METALS

2826	Fluorides; fluorosilicates, fluoroaluminates and other complex fluorine salts:			
	Fluorides:			
2826.11	Of ammonium or of sodium:			
2826.11.10	00 3	Of ammonium.....	kg..... 3.1%	Free (A,E,IL) 25% 1.2% (CA)
2826.11.50	00 4	Of sodium.....	kg..... 3.7%	Free (A,E,IL) 25% 1.4% (CA)
2826.12.00	00 4	Of aluminum.....	kg..... Free	25%
2826.19.00	00 7	Other.....	kg..... 3.9%	Free (A,CA,E,IL) 25%
2826.20.00	00 4	Fluorosilicates of sodium or of potassium.....	kg..... 4.1%	Free (A,E,IL) 62.5% 1.6% (CA)
2826.30.00	00 2	Sodium hexafluoroaluminate (Synthetic cryolite).....	t..... Free	Free
2826.90.00	00 9	Other.....	kg..... 3.1%	Free (A,E,IL) 25% 1.2% (CA)
2827	Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides:			
2827.10.00	00 5	Ammonium chloride.....	kg..... 2.9%	Free (A,CA,E,IL) 18%
2827.20.00	00 3	Calcium chloride.....	kg..... Free	Free
	Other chlorides:			
2827.31.00	00 0	Of magnesium.....	kg..... 1.5%	Free (A,E,IL) 5% 0.6% (CA)
2827.32.00	00 9	Of aluminum.....	kg..... Free	25%
2827.33.00	00 8	Of iron.....	kg..... 3.7%	Free (A,E,IL) 25% 1.4% (CA)
2827.34.00	00 7	Of cobalt.....	kg..... 4.2%	Free (A,E,IL) 30% 1.6% (CA)
2827.35.00	00 6	Of nickel.....	kg..... 3.7%	Free (A,E,IL) 25% 1.4% (CA)
2827.36.00	00 5	Of zinc.....	kg..... 1.6%	Free (A,E,IL) 5% 0.6% (CA)
2827.37.00	00 4	Of tin.....	kg..... 4.2%	Free (A,E,IL) 25% 1.6% (CA)
2827.38.00	00 3	Of barium.....	kg..... 4.2%	Free (A,E,IL) 28.5% 1.6% (CA)
	Other:			
2827.39	Of vanadium.....			
2827.39.10	00 0	Of vanadium.....	kg.....v 16%	Free (A,E,IL) 40% 6.4% (CA)
			vanadium content..	
2827.39.20	00 8	Of mercury.....	kg..... 13.2¢/kg + 4%	Free (A,E,IL) 48.5¢/kg + 25% 5.2¢/kg + 1.6% (CA)
2827.39.30	00 6	Of titanium.....	kg..... 4.9%	Free (A,E,IL) 30% 1.9% (CA)
2827.39.40	00 4	Of tungsten.....	kg.....v 10%	Free (E,IL) 45.5% 4% (CA)
2827.39.50	00 1	Other.....	kg..... 3.7%	Free (A,E,IL) 25% 1.4% (CA)

1/ Duty on mercuric oxide temporarily suspended. See heading 9902.28.25.

2827 (con.)	Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides (con.):			
	Chloride oxides and chloride hydroxides:			
2827.41.00 00 8	Of copper.....	kg.....	3.9%	Free (A,E,IL) 1.5% (CA) 32.5%
2827.49	Other:			
2827.49.10 00 8	Of vanadium.....	kg.....v	16%	Free (A,E,IL) 6.4% (CA) 40%
2827.49.50 00 9	Other.....	kg.....	7%	Free (A,E,IL) 2.8% (CA) 25%
	Bromides and bromide oxides:			
	Bromides of sodium or of potassium:			
2827.51	Of sodium.....			
2827.51.10 00 3	kg.....	6.6¢/kg	Free (A,E) 2.6¢/kg (CA) 22¢/kg	
2827.51.20 00 1	Of potassium.....	kg.....	3.3¢/kg Free (A,E,IL) 1.3¢/kg (CA) 22¢/kg	
2827.59	Other:			
2827.59.05 00 2	Of ammonium.....	kg.....	3.1%	Free (A*,E,IL) 1.2% (CA) 25%
2827.59.20 00 3	Of calcium.....	kg.....	Free	25%
2827.59.30 00 1	Of zinc.....	kg.....	3.7%	Free (A,E) 1.1% (IL) 1.4% (CA) 25%
2827.59.50 00 6	Other.....	kg.....	3.6%	Free (A,E,IL) 1.4% (CA) 25%
2827.60	Iodides and iodide oxides:			
2827.60.10 00 2	Of calcium or of copper.....	kg.....	Free	25%
2827.60.20 00 0	Of potassium.....	kg.....	2.8%	Free (A,CA,E,IL) 7.5%
2827.60.50 00 3	Other.....	kg.....	4.2%	Free (A,CA,E,IL) 25%
2828	Hypochlorites; commercial calcium hypochlorite; chlorites; hypobromites:			
2828.10.00 00 4	Commercial calcium hypochlorite and other calcium hypochlorites.....	kg.....	2.4%	Free (A,CA,E,IL) 25%
2828.90.00 00 7	Other.....	kg.....	3.7%	Free (A,E,IL) 1.4% (CA) 25%
2829	Chlorates and perchlorates; bromates and perbromates; iodates and periodates:			
	Chlorates:			
2829.11.00 00 2	Of sodium.....	kg.....	Free	13%
2829.19.00 00 4	Other.....	kg.....	3.3%	Free (A,E,IL) 1.1% (CA) 25%
2829.90	Other:			
2829.90.10 00 4	Of potassium.....	kg.....	3.1%	Free (A,E,IL) 1.2% (CA) 25%
2829.90.50 00 5	Other.....	kg.....	3.7%	Free (A,E,IL) 1.4% (CA) 25%
2830	Sulfides; polysulfides:			
2830.10.00 00 0	Sodium sulfides.....	kg.....	3.7%	Free (A,E,IL) 1.4% (CA) 25%
2830.20.00 00 8	Zinc sulfide.....	kg.....	2.8%	Free (A,E) 0.8% (IL) 1.1% (CA) 11%
2830.30.00 00 6	Cadmium sulfide.....	kg.....	3.1%	Free (A,E,IL) 1.2% (CA) 25%
2830.90.00 00 3	Other.....	kg.....	3%	Free (A,E,IL) 1.2% (CA) 25%

2831		Dithionites and sulfoxylates:						
2831.10.00	00 9	Of sodium.....	kg.....	17.5%	Free (A,E,IL)	35%		
2831.90.00	00 2	Other.....	kg.....	17.5%	Free (A,E,IL)	35%	7% (CA)	
2832		Sulfites; thiosulfates:						
2832.10.00	00 8	Sodium sulfites.....	kg.....	1.5%	Free (A,E,IL)	4.5%		
2832.20.00	00 6	Other sulfites.....	kg.....	3.1%	Free (A,E,IL)	25%	0.6% (CA)	
2832.30		Thiosulfates:						
2832.30.10	00 2	Sodium thiosulfate.....	kg.....	1.5%	Free (A,E,IL)	4.5%	1.2% (CA)	
2832.30.50	00 3	Other.....	kg.....	3.1%	Free (A,E,IL)	4.5%	0.6% (CA)	
2833		Sulfates; alums; peroxosulfates (persulfates):						
2833.11		Sodium sulfates:						
2833.11.10	00 4	Disodium sulfate:						
2833.11.50		Salt cake.....	t.....	Free	Free (A,E,IL)	Free		
		Other.....		32.5¢/t	13¢/t (CA)	\$2.95/t		
	10 3	Anhydrous.....	t					
	50 4	Other.....	t					
2833.19.00	00 8	Other.....	kg.....	Free		Free		
2833.21.00	00 4	Other sulfates:						
		Of magnesium.....	kg.....	3.7%	Free (A,E,IL)	20%		
		Of aluminum.....	kg.....	Free	1.4% (CA)			
2833.22.00	00 3	Of chromium.....	kg.....	3.7%	Free (A,E,IL)	10%		
2833.23.00	00 2	Of nickel.....	kg.....	3.2%	Free (A,E,IL)	25%		
2833.24.00	00 1	Of copper.....	kg.....	1.4%	Free (A,E,IL)	5%		
2833.25.00	00 0	copper content..	kg	0.5%	Free (A,E,IL)	8%		
2833.26.00	00 9	Of zinc.....	kg.....	1.6%	Free (A,E,IL)	2.8¢/kg		
2833.27.00	00 8	Of barium.....	kg.....	0.4¢/kg	Free (A,E,IL)	0.1¢/kg (CA)		
2833.29		Other:						
2833.29.10	00 4	Of cobalt.....	kg.....	1.4%	Free (A,E,IL)	6.5%		
2833.29.20	00 2	Of iron.....	kg.....	Free	0.5% (CA)			
2833.29.30	00 0	Of vanadium.....	kg.....	16%	Free (A,E,IL)	Free		
		vanadium content..	kg	6.4% (CA)	40%			
2833.29.50	00 5	Other.....	kg.....	3.7%	Free (A,E,IL)	30%		
2833.30.00	00 3	Alums.....	kg.....	1.6%	Free (A,E,IL)	25%		
2833.40		Peroxosulfates (persulfates):						
2833.40.10	00 9	Of potassium.....	kg.....	3.1%	Free (A,E,IL)	25%		
2833.40.20	00 7	Of sodium.....	kg.....	3.7%	Free (A,E,IL)	25%		
2833.40.50	00 0	Other.....	kg.....	3.1%	Free (A,E,IL)	25%		
2834		Nitrites; nitrates:						
2834.10		Nitrites:						
2834.10.10	00 4	Of sodium.....	kg.....	8.6%	Free (A,E,IL)	54%		
2834.10.50	00 5	Other.....	kg.....	3.1%	Free (A,E,IL)	25%		
2834.21.00	00 3	Nitrates:						
2834.22.00	00 2	Of potassium.....	t.....	Free	Free (A,E,IL)	Free		
		Of bismuth.....	kg.....	7%	2.8% (CA)	35%		
2834.29		Other:						
2834.29.10	00 3	Of calcium.....	t.....	Free	Free (A,E,IL)	Free		
2834.29.20	00 1	Of strontium.....	kg.....	4.2%	1.6% (CA)	25%		
2834.29.50	00 4	Other.....	kg.....	3.5%	Free (A,E,IL)	10%		

2835	Phosphinates (hypophosphites), phosphonates (phosphites), phosphates and polyphosphates:					
2835.10.00	00 5	Phosphinates (hypophosphites) and phosphonates (phosphites).....	kg.....	3.1%	Free (A,CA,E,IL)	25%
		Phosphates:				
2835.21.00	00 2	Of triammonium.....	kg.....	1.5%	Free (A,E,IL)	8.5%
2835.22.00	00 1	Of mono- or disodium.....	kg.....	1.4%	Free (A,E,IL)	6%
2835.23.00	00 0	Of trisodium.....	kg.....	2.2%	Free (A,E,IL)	11.5%
2835.24.00	00 9	Of potassium.....	kg.....	3.1%	Free (A,E,IL)	25%
2835.25.00	00 8	Calcium hydrogenorthophosphate ("Dicalcium phosphate").....	kg.....	Free	2.1% (CA)	
2835.26.00	00 7	Other phosphates of calcium.....	kg.....	Free		25%
2835.29		Other:				
2835.29.10	00 2	Of aluminum.....	kg.....	Free		25%
2835.29.50	00 3	Other.....	kg.....	4.1%	Free (A,E,IL)	25%
		Polyphosphates:				
2835.31.00	00 0	Sodium triphosphate (Sodium tripolyphosphate).....	kg.....	1.4%	Free (A,E,IL)	6%
2835.39		Other:				
2835.39.10	00 0	Of potassium.....	kg.....	3.1%	Free (A,E,IL)	25%
2835.39.50	00 1	Other.....	kg.....	3.7%	Free (A,E,IL)	25%
2836	Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate:					
2836.10.00	00 4	Commercial ammonium carbonate and other ammonium carbonates.....	kg.....	1.7%	Free (A,E,IL)	16%
2836.20.00	00 2	Disodium carbonate.....	kg.....	1.2%	Free (A,E,IL)	8.5%
2836.30.00	00 0	Sodium hydrogencarbonate (Sodium bicarbonate).....	kg.....	Free	0.8% (CA)	
2836.40		Potassium carbonates:				
2836.40.10	00 6	Dipotassium carbonate.....	kg.....	1.9%	Free (A,E,IL)	6%
2836.40.20	00 4	Potassium hydrogencarbonate (Potassium bicarbonate).....	kg.....	0.9¢/kg	Free (A,E,IL)	3.3¢/kg
2836.50.00	00 5	Calcium carbonate.....	kg.....	Free	0.3¢/kg (CA)	25%
2836.60.00	00 3	Barium carbonate.....	kg.....	0.9¢/kg	Free (A,E,IL)	3.3¢/kg
2836.70.00	00 1	Lead carbonate.....	kg.....	0.5%	Free (A,E,IL)	4.5%
2836.91.00		Other:				
		Lithium carbonates.....		3.7%	Free (A,E,IL)	25%
	10 4	U.S.P. grade.....	kg		1.4% (CA)	
	50 5	Other.....	kg			
2836.92.00	00 5	Strontium carbonate.....	kg.....	4.2%	Free (A*,E,IL)	25%
2836.93.00	00 4	Bismuth carbonate.....	kg.....	7%	Free (A,E,IL)	35%
2836.99		Other:				
2836.99.10	00 6	Cobalt carbonates.....	kg.....	4.2%	Free (A,CA,E,IL)	30%
2836.99.50	00 7	Other.....	kg.....	3.7%	Free (A,CA,E,IL)	25%

2837			Cyanides, cyanide oxides and complex cyanides:					
			Cyanides and cyanide oxides:					
2837.11.00	00 2		Of sodium.....	kg.....	Free			Free
2837.19.00			Other.....		Free			Free
	10 2		Potassium cyanide.....	kg				
	15 7		Calcium cyanide.....	kg				
	25 5		Other.....	kg				
2837.20			Complex cyanides:					
2837.20.10	00 9		Potassium ferricyanide.....	kg.....	3.3¢/kg	Free (A,E,IL)	15.4¢/kg	
						1.3¢/kg (CA)		
2837.20.50	00 0		Other.....	kg.....	1.7%	Free (A,E,IL)	8.5%	
						0.6% (CA)		
2838.00.00	00 4		Fulminates, cyanates and thiocyanates.....	kg.....	3.1%	Free (A,E,IL)	25%	
						1.2% (CA)		
2839			Silicates; commercial alkali metal silicates:					
			Of sodium:					
2839.11.00	00 0		Sodium metasilicates.....	kg.....	1.1%	Free (A,E,IL)	3%	
						0.4% (CA)		
2839.19.00	00 2		Other.....	kg.....	1.1%	Free (A,E,IL)	3%	
						0.4% (CA)		
2839.20.00	00 9		Of potassium.....	kg.....	3.1%	Free (A,E,IL)	25%	
						1.2% (CA)		
2839.90.00	00 4		Other.....	kg.....	3.1%	Free (A,E,IL)	25%	
						1.2% (CA)		
2840			Borates; peroxoborates (perborates):					
			Disodium tetraborate (refined borax):					
2840.11.00	00 7		Anhydrous.....	kg.....	0.07¢/kg	Free (A,E,IL)	0.28¢/kg	
						0.02¢/kg (CA)		
2840.19.00	00 9		Other.....	kg.....	0.07¢/kg	Free (A,E,IL)	0.28¢/kg	
						0.02¢/kg (CA)		
2840.20.00	00 6		Other borates.....	kg.....	3.7%	Free (A,E,IL)	25%	
						1.4% (CA)		
2840.30.00			Peroxoborates (perborates).....		3.7%	Free (A,E,IL)	25%	
	10 2		Sodium perborate.....	kg		1.4% (CA)		
	50 3		Other.....	kg				
2841			Salts of oxometallic or peroxometallic acids:					
2841.10.00	00 7		Aluminates.....	kg.....	3.1%	Free (A,E,IL)	25%	
						1.2% (CA)		
2841.20.00	00 5		Chromates of zinc or of lead.....	kg.....	3.7%	Free (A,E,IL)	25%	
						1.4% (CA)		
2841.30.00	00 3		Sodium dichromate.....	kg.....	2.4%	Free (A,E,IL)	8.5%	
						0.9% (CA)		
2841.40.00	00 1		Potassium dichromate.....	kg.....	1.5%	Free (A,E,IL)	3.5%	
						0.6% (CA)		
2841.50.00	00 8		Other chromates and dichromates; peroxy- chromates.....	kg.....	3.1%	Free (A,E,IL)	25%	
						1.2% (CA)		
2841.60.00			Manganites, manganates and permanganates.....		5%	Free (A,CA,E,IL)	23%	
	10 4		Potassium permanganate.....	kg				
	50 5		Other.....	kg				
2841.70			Molybdates:					
2841.70.10	00 2		Of ammonium.....	kg.....v	4.3%	Free (A,E,IL)	29%	
			molybdenum content...	kg		1.7% (CA)		
2841.70.50	00 3		Other.....	kg.....v	3.7%	Free (A,E,IL)	25%	
			molybdenum content...	kg		1.4% (CA)		
2841.80.00			Tungstates (wolframates).....		10% <u>1/</u>	Free (E,IL)	49.5%	
	10 0		Of ammonium.....	kg	v	4% (CA)		
			tungsten content..	kg				
	20 8		Of calcium.....	kg	v			
			tungsten content..	kg				
	50 1		Other.....	kg	v			
			tungsten content..	kg				
2841.90			Other:					
2841.90.10	00 8		Vanadates.....	kg.....v	11.2%	Free (A,E,IL)	40%	
			vanadium content..	kg		4.4% (CA)		
2841.90.20	00 6		Ammonium perrhenate.....	kg.....	3.1%	Free (A,E,IL)	25%	
						1.2% (CA)		
2841.90.30	00 4		Potassium stannate.....	kg.....	3.1%	Free (A,E,IL)	25%	
						1.2% (CA)		
2841.90.50	00 9		Other.....	kg.....	3.7%	Free (A,E,IL)	25%	
						1.4% (CA)		

1/ Ammonium paratungstate, the product of the People's Republic of China, subject to quotas. See headings 9903.28.15-9903.28.25.

2842		Other salts of inorganic acids or peroxyacids, excluding azides:					
2842.10.00	00 6	Double or complex silicates.....	kg.....	3.7%	Free (E,IL)	25%	
					1.4% (CA)		
2842.90.00	00 9	Other.....	kg.....	3.3%	Free (A,E,IL)	25%	
					1.3% (CA)		
VI. MISCELLANEOUS							
2843		Colloidal precious metals; inorganic or organic compounds of precious metals, whether or not chemically defined; amalgams of precious metals:					
2843.10.00	00 5	Colloidal precious metals.....	g.....	6%	Free (E,IL)	65%	
					2.4% (CA)		
		Silver compounds:					
2843.21.00	00 2	Silver nitrate.....	kg.....	3.7%	Free (A,CA,E,IL)	25%	
2843.29.00	00 4	Other.....	kg.....	3.7%	Free (A,CA,E,IL)	25%	
2843.30.00	00 1	Gold compounds.....	kg.....	5%	Free (A,E,IL)	25%	
					2% (CA)		
2843.90.00	00 8	Other compounds; amalgams.....	kg.....	3.7%	Free (A,CA,E,IL)	25%	
2844		Radioactive chemical elements and radioactive isotopes (including the fissile or fertile chemical elements and isotopes) and their compounds; mixtures and residues containing these products:					
2844.10		Natural uranium and its compounds; alloys, dispersions (including cermet), ceramic products and mixtures containing natural uranium or natural uranium compounds:					
2844.10.10	00 2	Uranium metal.....	kg.....	5%	Free (A,E,IL)	45%	
					2% (CA)		
2844.10.20		Uranium compounds.....		Free		Free	
	10 8	Oxide.....	kg				
	25 1	Hexafluoride.....	kg				
	55 4	Other.....	kg				
2844.10.50	00 3	Other.....	kg.....	5%	Free (E,IL)	45%	
					2% (CA)		
2844.20.00		Uranium enriched in U235 and its compounds; plutonium and its compounds; alloys, dispersions (including cermet), ceramic products and mixtures containing uranium enriched in U235, plutonium or compounds of these products.....		Free		Free	
		Uranium compounds:					
	10 0	Oxide.....	kg				
	20 8	Fluorides.....	kg				
	30 6	Other.....	kg				
	50 1	Other.....	X				
2844.30		Uranium depleted in U235 and its compounds; thorium and its compounds; alloys, dispersions (including cermet), ceramic products and mixtures containing uranium depleted in U235, thorium, or compounds of these products:					
2844.30.10	00 8	Thorium compounds.....	kg.....	7.8%	Free (A,E,IL)	35%	
					3.1% (CA)		
2844.30.20		Uranium compounds.....		Free		Free	
	10 4	Oxide.....	kg				
	20 2	Fluorides.....	kg				
	50 5	Other.....	kg				
2844.30.50		Other.....		5%	Free (A,E,IL)	45%	
					2% (CA)		
	10 7	Uranium metal.....	kg				
	50 8	Other.....	X				

2844 (con.)	Radioactive chemical elements and radioactive isotopes (including the fissile or fertile chemical elements and isotopes) and their compounds; mixtures and residues containing these products (con.):				
2844.40.00	Radioactive elements and isotopes and compounds other than those of subheadings 2844.10, 2844.20, and 2844.30; alloys, dispersions (including cermets), ceramic products and mixtures containing these elements, isotopes or compounds; radioactive residues.....		Free		Free
	10 6	Elements, isotopes and compounds with cobalt-60 radioactivity only..... curie			
	20 4	Other elements, isotopes and compounds... mc			
	50 7	Other..... X			
2844.50.00	00 5	Spent (irradiated) fuel elements (cartridges) of nuclear reactors..... kg.....	Free		Free
2845	Isotopes other than those of heading 2844; compounds, inorganic or organic, of such isotopes, whether or not chemically defined:				
2845.10.00	00 3	Heavy water (Deuterium oxide)..... kg.....	Free		25%
2845.90.00	00 6	Other..... kg.....	Free		25%
2846	Compounds, inorganic or organic, of rare-earth metals, of yttrium or of scandium, or of mixtures of these metals:				
2846.10.00	00 2	Cerium compounds..... kg.....	7.2%	Free (A,E,IL) 2.8% (CA)	35%
2846.90	Other:				
2846.90.20	Mixtures of rare-earth oxides or of rare-earth chlorides.....		Free		25%
	10 9	Rare-earth oxides except cerium oxide..... kg			
	50 0	Other..... kg			
2846.90.50	00 4	Other..... kg.....	3.7% <u>1</u> /	Free (A,E,IL) 1.4% (CA)	25%
2847.00.00	00 3	Hydrogen peroxide, whether or not solidified with urea..... kg.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%
2848	Phosphides, whether or not chemically defined, excluding ferrophosphorus:				
2848.10.00	00 0	Of copper (phosphor copper), containing more than 15 percent by weight of phosphorus..... kg.....	2.6%	Free (A,E,IL) 1% (CA)	32.5%
2848.90.00	00 3	Of other metals or of nonmetals..... kg.....	Free		25%
2849	Carbides, whether or not chemically defined:				
2849.10.00	00 9	Of calcium..... kg.....	1.8%	Free (A,E,IL) 0.7% (CA)	10%
2849.20	Of silicon:				
2849.20.10	00 5	Crude..... kg.....	Free		Free
2849.20.20	00 3	In grains, or ground, pulverized or refined..... kg.....	0.7¢/kg	Free (A,E,IL) 0.2¢/kg (CA)	2.2¢/kg
2849.90	Other:				
2849.90.10	00 0	Of boron..... kg.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%
2849.90.20	00 8	Of chromium..... kg.....	4.2%	Free (A,E,IL) 1.6% (CA)	25%
2849.90.30	00 6	Of tungsten..... kg.....	10.5%	Free (E,IL) 4.2% (CA)	55.5%
2849.90.50	00 1	Other..... kg.....	3.7%	Free (A,E,IL) 1.4% (CA)	25%

1/ Duty on yttrium bearing materials and compounds temporarily suspended. See heading 9902.26.22.

2850.00		Hydrides, nitrides, azides, silicides and borides, whether or not chemically defined:				
2850.00.05	00 2	Of calcium.....	kg.....	Free		25%
2850.00.07	00 0	Of titanium.....	kg.....	4.9%	Free (A,E,IL)	30%
					1.9% (CA)	
2850.00.10	00 5	Of tungsten.....	kg.....v	10%	Free (E,IL)	45.5%
			tungsten content..	kg	4% (CA)	
2850.00.20	00 3	Of vanadium.....	kg.....v	16%	Free (A,E,IL)	40%
			vanadium content..	kg	6.4% (CA)	
2850.00.50	00 6	Other.....	kg.....	3.7%	Free (A,E,IL)	25%
					1.4% (CA) <u>1/</u>	
2851.00.00		Other inorganic compounds (including distilled or conductivity water and water of similar purity); liquid air (whether or not rare gases have been removed); compressed air; amalgams, other than amalgams of precious metals.....		2.8%	Free (A,E,IL)	25%
	10 4	Gallium arsenide wafers, undoped.....	kg		1.1% (CA)	
	90 7	Other.....	kg			

1/ Sodium azide originating in the territory of Canada is free of duty. See heading 9905.28.10.