

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

## SECTION VI

### PRODUCTS OF THE CHEMICAL OR ALLIED INDUSTRIES

VI-1

#### Notes

1. (a) Goods (other than radioactive ores) answering to a description in heading 2844 or 2845 are to be classified in those headings and in no other heading of the tariff schedule.  
(b) Subject to paragraph (a) above, goods answering to a description in heading 2843, 2846 or 2852 are to be classified in those headings and in no other heading of this section.
2. Subject to note 1 above, goods classifiable in heading 3004, 3005, 3006, 3212, 3303, 3304, 3305, 3306, 3307, 3506, 3707 or 3808 by reason of being put up in measured doses or for retail sale are to be classified in those headings and in no other heading of the tariff schedule.
3. Goods put up in sets consisting of two or more separate constituents, some or all of which fall in this section and are intended to be mixed together to obtain a product of section VI or VII, are to be classified in the heading appropriate to that product, provided that the constituents are:
  - (a) Having regard to the manner in which they are put up, clearly identifiable as being intended to be used together without first being repacked;
  - (b) Entered together; and
  - (c) Identifiable, whether by their nature or by the relative proportions in which they are present, as being complementary one to another.

#### Additional U.S. Notes

1. In determining the amount of duty applicable to a solution of a single compound in water subject to duty in this section at a specific rate, an allowance in weight or volume, as the case may be, shall be made for the water in excess of any water of crystallization which may be present in the undissolved compound.
2. For the purposes of the tariff schedule:
  - (a) The term "aromatic" as applied to any chemical compound refers to such compound containing one or more fused or unfused benzene rings;
  - (b) The term "modified aromatic" describes a molecular structure having at least one six-membered heterocyclic ring which contains at least four carbon atoms and having an arrangement of molecular bonds as in the benzene ring or in the quinone ring, but does not include any such molecular structure in which one or more pyrimidine rings are the only modified aromatic rings present;
  - (c) For the purposes of headings 2902, 2907 and 3817, the term "alkyl" describes any saturated acyclic hydrocarbon group having six or more carbon atoms or, subject to note 1 to chapter 29, any mixtures of such groups averaging six or more carbon atoms.
3. The term "products described in additional U.S. note 3 to section VI" refers to any product not listed in the Chemical Appendix to the Tariff Schedule and--
  - (a) For which the importer furnishes the Chemical Abstracts Service (C.A.S.) registry number and certifies that such registry number is not listed in the Chemical Appendix to the Tariff Schedule; or
  - (b) Which the importer certifies not to have a C.A.S. registry number and not to be listed in the Chemical Appendix to the Tariff Schedule, either under the name used to make Customs entry or under any other name by which it may be known.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

## CHAPTER 28

### INORGANIC CHEMICALS; ORGANIC OR INORGANIC COMPOUNDS OF PRECIOUS METALS, OF RARE-EARTH METALS, OF RADIOACTIVE ELEMENTS OR OF ISOTOPES

VI  
28-1

#### 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 (including an anticaking agent) 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 2842), organic products included in headings 2843 to 2846 and 2852 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 2853) 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; glass frit and other glass in the form of powder, granules or flakes, of heading 3207;
  - (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 3824; 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 3824;
  - (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, metal alloys or cermets, including sintered metal carbides (metal carbides sintered with a metal), 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.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-2

5. Headings 2826 to 2842 apply only to metal or ammonium salts or peroxysalts.

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 74 becquerels per gram (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 "m<sup>3</sup>" (cubic meter) means a standard cubic meter measured at 21°C at 760 mm (1013 millibars) pressure.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-3

| Heading/<br>Subheading      | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity     | Rates of Duty      |  |          |
|-----------------------------|----------------------|---|----------------------------|--------------------|--|----------|
|                             |                      |   |                            | 1                  |  | 2        |
|                             |                      |   |                            | General            | Special  |          |
| <b>I. CHEMICAL ELEMENTS</b> |                      |   |                            |                    |  |          |
| 2801                        |                      | Fluorine, chlorine, bromine and iodine:   |                            |                    |  |          |
| 2801.10.00                  | 00                   | Chlorine .....  | kg .....                   | Free               |  | 25%      |
| 2801.20.00                  | 00                   | Iodine .....  | kg .....                   | Free               |  | Free     |
| 2801.30                     |                      | Fluorine; bromine:  |                            |                    |  |          |
| 2801.30.10                  | 00                   | Fluorine .....  | kg .....                   | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%      |
| 2801.30.20                  | 00                   | Bromine .....   | kg .....                   | 5.5%               | Free (A+,AU,BH,<br>CA,CL,D,E,IL,J,<br>JO,MA,MX,OM,<br>P,PE,SG) | 37%      |
| 2802.00.00                  | 00                   | Sulfur, sublimed or precipitated; colloidal sulfur .....                                      | t .....                    | Free               |  | Free     |
| 2803.00.00                  |                      | Carbon (carbon blacks and other forms of carbon not<br>elsewhere specified or included) ..... |                            | Free               |  | 20%      |
|                             | 10                   | Carbon black .....  | kg                         |                    |  |          |
|                             | 50                   | Other .....   | kg                         |                    |  |          |
| 2804                        |                      | Hydrogen, rare gases and other nonmetals:   |                            |                    |  |          |
| 2804.10.00                  | 00                   | Hydrogen .....  | thousand<br>m <sup>3</sup> | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%      |
|                             |                      | Rare gases:   |                            |                    |  |          |
| 2804.21.00                  | 00                   | Argon .....   | thousand<br>m <sup>3</sup> | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%      |
| 2804.29.00                  |                      | Other .....   |                            | 3.7% <sup>1/</sup> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%      |
|                             | 10                   | Helium .....  | thousand<br>m <sup>3</sup> |                    |  |          |
|                             | 50                   | Other .....   | thousand<br>m <sup>3</sup> |                    |  |          |
| 2804.30.00                  | 00                   | Nitrogen .....  | thousand<br>m <sup>3</sup> | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%      |
| 2804.40.00                  | 00                   | Oxygen .....  | thousand<br>m <sup>3</sup> | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%      |
| 2804.50.00                  |                      | Boron; tellurium .....  |                            | Free               |  | 25%      |
|                             | 10                   | Boron .....   | kg                         |                    |  |          |
|                             | 20                   | Tellurium .....   | kg                         |                    |  |          |
| 2804.61.00                  | 00                   | Silicon:<br>Containing by weight not less than 99.99 percent<br>of silicon .....              | kg .....                   | Free               |  | 25%      |
| 2804.69                     |                      | Other:  |                            |                    |  |          |
| 2804.69.10                  | 00                   | Containing by weight less than 99.99 percent<br>but not less than 99 percent of silicon ..... | kg .....                   | 5.3%               | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)   | 21%      |
| 2804.69.50                  | 00                   | Other .....   | kg .....                   | 5.5%               | Free (A+,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)   | 45%      |
| 2804.70.00                  | 00                   | Phosphorus .....  | kg .....                   | Free               |  | 17.6¢/kg |
| 2804.80.00                  | 00                   | Arsenic .....   | kg .....                   | Free               |  | 13.2¢/kg |
| 2804.90.00                  | 00                   | Selenium .....  | kg .....                   | Free               |  | Free     |

<sup>1/</sup> See heading 9902.01.47 and subheading 9903.27.02.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-4

| Heading/<br>Subheading   | Stat.<br>Suf-<br>fix | Article Description  | Unit<br>of<br>Quantity | Rates of Duty |  |       |
|--|----------------------|--|------------------------|---------------|--|-------|
|  |                      |  |                        | 1             |  | 2     |
|  |                      |  |                        | General       | Special  |       |
| 2805   |                      | Alkali or alkaline-earth metals; rare-earth metals, scandium and yttrium, whether or not intermixed or interalloyed; mercury:            |                        |               |  |       |
| 2805.11.00   | 00                   | Alkali or alkaline-earth metals:<br>Sodium .....   | kg .....               | 5.3%          | Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG) | 25%   |
| 2805.12.00   | 00                   | Calcium .....  | kg .....               | 3%            | Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG) | 25%   |
| 2805.19  |                      | Other:   |                        |               |  |       |
| 2805.19.10   | 00                   | Strontium .....  | kg .....               | 3.7%          | Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)    | 25%   |
| 2805.19.20   | 00                   | Barium .....   | kg .....               | Free          |  | 25%   |
| 2805.19.90   | 00                   | Other .....  | kg .....               | 5.5%          | Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG) | 25%   |
| 2805.30.00   | 00                   | Rare-earth metals, scandium and yttrium, whether or not intermixed or interalloyed .....   | kg .....               | 5%            | Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG) | 31.3% |
| 2805.40.00   | 00                   | Mercury .....  | kg .....               | 1.7%          | Free (A*,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)   | 5.7%  |
| <b>II. INORGANIC ACIDS AND INORGANIC OXYGEN COMPOUNDS OF NONMETALS</b> |                      |  |                        |               |  |       |
| 2806   |                      | Hydrogen chloride (Hydrochloric acid); chlorosulfuric acid:  |                        |               |  |       |
| 2806.10.00   | 00                   | Hydrogen chloride (Hydrochloric acid) .....  | t .....                | Free          |  | Free  |
| 2806.20.00   | 00                   | Chlorosulfuric acid .....  | kg .....               | 4.2%          | Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)    | 25%   |
| 2807.00.00   | 00                   | Sulfuric acid; oleum .....   | t .....                | Free          |  | Free  |
| 2808.00.00   |                      | Nitric acid; sulfonitric acids .....   |                        | Free          |  | Free  |
|  | 10                   | Nitric acid .....  | kg                     |               |  |       |
|  | 20                   | Sulfonitric acids .....  | kg                     |               |  |       |
| 2809   |                      | Diphosphorus pentoxide; phosphoric acid; polyphosphoric acids, whether or not chemically defined:  |                        |               |  |       |
| 2809.10.00   | 00                   | Diphosphorus pentoxide .....   | kg .....               | Free          |  | 25%   |
| 2809.20.00   |                      | Phosphoric acid and polyphosphoric acids .....   |                        | Free          |  | Free  |
|  |                      | Phosphoric acid:   |                        |               |  |       |
|  | 10                   | Fertilizer grade:<br>Containing less than 65 percent available diphosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) equivalents ..... | t                      |               |  |       |
|  | 20                   | Other .....  | t                      |               |  |       |
|  | 30                   | Other .....  | t                      |               |  |       |
|  | 40                   | Polyphosphoric acids .....   | t                      |               |  |       |
| 2810.00.00   | 00                   | Oxides of boron; boric acids .....   | t .....                | 1.5%          | Free (A*,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)   | 8.5%  |

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-5

| Heading/<br>Subheading | Stat<br>Suf-<br>fix | Article Description  | Unit<br>of<br>Quantity | Rates of Duty  |  |      |
|------------------------|---------------------|--|------------------------|----------------|--|------|
|                        |                     |  |                        | 1              |  | 2    |
|                        |                     |  |                        | General        | Special  |      |
| 2811                   |                     | Other inorganic acids and other inorganic oxygen compounds of nonmetals:   |                        |                |  |      |
|                        |                     | Other inorganic acids:   |                        |                |  |      |
| 2811.11.00             | 00                  | Hydrogen fluoride (Hydrofluoric acid) . . . . .  | kg . . . . .           | Free           |  | Free |
| 2811.19                |                     | Other:   |                        |                |  |      |
| 2811.19.10             | 00                  | Arsenic acid . . . . .   | kg . . . . .           | 2.3%           | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 4.9% |
| 2811.19.30             | 00                  | Hydrobromic acid . . . . .   | kg . . . . .           | Free           |  | 25%  |
| 2811.19.60             |                     | Other . . . . .  |                        | 4.2%           | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%  |
|                        | 05                  | Hydrogen cyanide . . . . .   | kg . . . . .           |                |  |      |
|                        | 10                  | Sulfamic acid . . . . .  | kg . . . . .           |                |  |      |
|                        | 90                  | Other . . . . .  | kg . . . . .           |                |  |      |
| 2811.21.00             | 00                  | Other inorganic oxygen compounds of nonmetals:   |                        |                |  |      |
|                        |                     | Carbon dioxide . . . . .   | t . . . . .            | 3.7% <u>1/</u> | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%  |
| 2811.22                |                     | Silicon dioxide:   |                        |                |  |      |
| 2811.22.10             | 00                  | Synthetic silica gel . . . . .   | kg . . . . .           | 3.7%           | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%  |
| 2811.22.50             | 00                  | Other . . . . .  | kg . . . . .           | Free           |  | Free |
| 2811.29                |                     | Other:   |                        |                |  |      |
| 2811.29.10             | 00                  | Arsenic trioxide . . . . .   | kg . . . . .           | Free           |  | Free |
| 2811.29.20             | 00                  | Selenium dioxide . . . . .   | kg . . . . .           | Free           |  | Free |
| 2811.29.30             | 00                  | Sulfur dioxide . . . . .   | kg . . . . .           | 4.2%           | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%  |
| 2811.29.50             | 00                  | Other . . . . .  | kg . . . . .           | 3.7%           | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%  |
|                        |                     | III. HALOGEN OR SULFUR COMPOUNDS OF<br>NONMETALS   |                        |                |  |      |
| 2812                   |                     | Halides and halide oxides of nonmetals:  |                        |                |  |      |
| 2812.10                |                     | Chlorides and chloride oxides:   |                        |                |  |      |
| 2812.10.10             | 00                  | Phosphorus pentachloride` . . . . .  | kg . . . . .           | Free           |  | 25%  |
| 2812.10.50             |                     | Other . . . . .  |                        | 3.7% <u>2/</u> | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%  |
|                        | 05                  | Arsenic trichloride, carbonyl dichloride (phosgene), sulfur monochloride, sulfur dichloride and thionyl chloride . . . . . | kg . . . . .           |                |  |      |
|                        | 10                  | Phosphorus oxychloride and trichloride . . . . .   | kg . . . . .           |                |  |      |
|                        | 90                  | Other . . . . .  | kg . . . . .           |                |  |      |
| 2812.90.00             | 00                  | Other . . . . .  | kg . . . . .           | 3.7%           | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%  |

1/ See heading 9902.03.20.

2/ See heading 9902.28.01.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-6

| Heading/<br>Subheading  | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty      |  |         |
|---|----------------------|---|------------------------|--------------------|--|---------|
|   |                      |   |                        | 1                  |  | 2       |
|   |                      |   |                        | General            | Special  |         |
| 2813  |                      | Sulfides of nonmetals; commercial phosphorus trisulfide:  |                        |                    |  |         |
| 2813.10.00  | 00                   | Carbon disulfide  | kg                     | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 25%     |
| 2813.90   |                      | Other:  |                        |                    |  |         |
| 2813.90.10  | 00                   | Of arsenic  | kg                     | Free               |  | Free    |
| 2813.90.20  | 00                   | Of phosphorus   | kg                     | Free               |  | 25%     |
| 2813.90.50  | 00                   | Other   | kg                     | 3.7%               | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%     |
| IV. INORGANIC BASES AND OXIDES, HYDROXIDES<br>AND PEROXIDES OF METALS |                      |   |                        |                    |  |         |
| 2814  |                      | Ammonia, anhydrous or in aqueous solution:  |                        |                    |  |         |
| 2814.10.00  | 00                   | Anhydrous ammonia   | t                      | Free               |  | Free    |
| 2814.20.00  | 00                   | Ammonia in aqueous solution   | t<br>NH <sub>3</sub> t | Free               |  | Free    |
| 2815  |                      | Sodium hydroxide (Caustic soda); potassium hydroxide<br>(Caustic potash); peroxides of sodium or potassium: |                        |                    |  |         |
| Sodium hydroxide (Caustic soda):                                      |                      |   |                        |                    |  |         |
| 2815.11.00  | 00                   | Solid   | kg                     | Free               |  | 1.1¢/kg |
| 2815.12.00  | 00                   | In aqueous solution (Soda lye or liquid soda)   | kg<br>NaOH kg          | Free               |  | 1.1¢/kg |
| 2815.20.00  |                      | Potassium hydroxide (Caustic potash)  |                        | Free               |  | 2.2¢/kg |
|   | 50                   | In solid form   | kg                     |                    |  |         |
|   | 90                   | Other   | kg                     |                    |  |         |
| 2815.30.00  | 00                   | Peroxides of sodium or potassium  | kg                     | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 25%     |
| 2816  |                      | Hydroxide and peroxide of magnesium; oxides, hydroxides<br>and peroxides, of strontium or barium:           |                        |                    |  |         |
| 2816.10.00  | 00                   | Hydroxide and peroxide of magnesium   | kg                     | 3.1% <sup>1/</sup> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 25%     |
| 2816.40   |                      | Oxides, hydroxides and peroxides, of strontium or<br>barium:  |                        |                    |  |         |
| 2816.40.10  | 00                   | Of strontium  | kg                     | 4.2%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 25%     |
| 2816.40.20  | 00                   | Of barium   | kg                     | 2%                 | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 10.5%   |
| 2817.00.00  | 00                   | Zinc oxide; zinc peroxide   | kg                     | Free               |  | 5.5%    |
| 2818  |                      | Artificial corundum, whether or not chemically defined;<br>aluminum oxide; aluminum hydroxide:              |                        |                    |  |         |
| Artificial corundum, whether or not chemically defined:               |                      |   |                        |                    |  |         |
| 2818.10   |                      | Crude   | t                      | Free               |  | Free    |
| 2818.10.10  | 00                   | In grains, or ground, pulverized or refined   |                        | 1.3%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 4.1%    |
|   | 10                   | White, pink or ruby, containing more than<br>97.5 percent by weight of aluminum oxide                       | kg                     |                    |  |         |
|   | 90                   | Other   | kg                     |                    |  |         |
| 2818.20.00  | 00                   | Aluminum oxide, other than artificial corundum  | kg                     | Free               |  | 1.1¢/kg |
| 2818.30.00  | 00                   | Aluminum hydroxide  | kg                     | Free               |  | 1.1¢/kg |

<sup>1/</sup> See heading 9902.22.87.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-7

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty |  |       |
|------------------------|----------------------|---|------------------------|---------------|--|-------|
|                        |                      |   |                        | 1             |  | 2     |
|                        |                      |   |                        | General       | Special  |       |
| 2819                   |                      | Chromium oxides and hydroxides:   |                        |               |  |       |
| 2819.10.00             | 00                   | Chromium trioxide .....   | kg .....               | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%   |
| 2819.90.00             | 00                   | Other .....   | kg .....               | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%   |
| 2820                   |                      | Manganese oxides:   |                        |               |  |       |
| 2820.10.00             | 00                   | Manganese dioxide .....   | kg .....               | 4.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%   |
| 2820.90.00             | 00                   | Other .....   | kg .....               | 4.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%   |
| 2821                   |                      | Iron oxides and hydroxides; earth colors containing<br>70 percent or more by weight of combined iron<br>evaluated as Fe <sub>2</sub> O <sub>3</sub> : |                        |               |  |       |
| 2821.10.00             |                      | Iron oxides and hydroxides .....  |                        | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%   |
|                        |                      | Synthetic pigments:   |                        |               |  |       |
|                        | 10                   | Black .....   | kg .....               |               |  |       |
|                        | 20                   | Red .....   | kg .....               |               |  |       |
|                        | 30                   | Yellow .....  | kg .....               |               |  |       |
|                        | 40                   | Other .....   | kg .....               |               |  |       |
|                        | 50                   | Other .....   | kg .....               |               |  |       |
| 2821.20.00             | 00                   | Earth colors .....  | kg .....               | 5.5%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)              | 20%   |
| 2822.00.00             | 00                   | Cobalt oxides and hydroxides; commercial cobalt oxides ..   | kg .....               | 0.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 1.7%  |
| 2823.00.00             | 00                   | Titanium oxides .....   | kg .....               | 5.5%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,,<br>P,PE,SG)             | 30%   |
| 2824                   |                      | Lead oxides; red lead and orange lead:  |                        |               |  |       |
| 2824.10.00             | 00                   | Lead monoxide (litharge, massicot) .....  | kg .....               | 3%            | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 12%   |
| 2824.90                |                      | Other:  |                        |               |  |       |
| 2824.90.10             | 00                   | Lead suboxide (leady litharge) .....  | kg .....               | 5.5%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P)                    | 30%   |
| 2824.90.20             | 00                   | Red lead and orange lead .....  | kg .....               | 3.4%          | 1.8% (SG)<br>Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 12.5% |
| 2824.90.50             | 00                   | Other .....   | kg .....               | 4.8%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 30%   |



# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-8

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty  |   |         |
|------------------------|----------------------|---|------------------------|----------------|---|---------|
|                        |                      |   |                        | 1              |   | 2       |
|                        |                      |   |                        | General        | Special   |         |
| 2825                   |                      | Hydrazine and hydroxylamine and their inorganic salts;<br>other inorganic bases; other metal oxides, hydroxides and<br>peroxides: |                        |                |   |         |
| 2825.10.00             | 00                   | Hydrazine and hydroxylamine and their inorganic<br>salts .....  | kg .....               | 3.7% <u>1/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%     |
| 2825.20.00             | 00                   | Lithium oxide and hydroxide .....   | kg .....               | 3.7%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%     |
| 2825.30.00             |                      | Vanadium oxides and hydroxides .....  |                        | 5.5%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE)<br>1.9% (SG) | 40%     |
|                        | 10                   | Vanadium pentoxide (anhydride) .....  | kg                     |                |   |         |
|                        | 50                   | Other .....   | V kg                   |                |   |         |
| 2825.40.00             | 00                   | Nickel oxides and hydroxides .....  | kg                     | Free           |   | Free    |
| 2825.50                |                      | Copper oxides and hydroxides:   |                        |                |   |         |
| 2825.50.10             | 00                   | Cupric oxide .....  | kg .....               | 4.3%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 31%     |
| 2825.50.20             | 00                   | Cuprous oxide .....   | kg .....               | 5%             | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)       | 39.5%   |
| 2825.50.30             | 00                   | Copper hydroxides .....   | kg .....               | 3.9%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 32.5%   |
| 2825.60.00             | 00                   | Germanium oxides and zirconium dioxide .....  | kg .....               | 3.7% <u>2/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%     |
| 2825.70.00             | 00                   | Molybdenum oxides and hydroxides .....  | kg .....               | 3.2%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 20.5%   |
| 2825.80.00             | 00                   | Antimony oxides .....   | kg .....               | Free           |   | 4.4¢/kg |
| 2825.90                |                      | Other:  |                        |                |   |         |
| 2825.90.10             | 00                   | Beryllium oxide and hydroxide .....   | kg .....               | 3.7%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%     |
| 2825.90.15             | 00                   | Niobium oxide .....   | kg .....               | 3.7%           | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 25%     |
| 2825.90.20             | 00                   | Tin oxides .....  | kg .....               | 4.2%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%     |
| 2825.90.30             | 00                   | Tungsten oxides .....   | kg<br>W kg             | 5.5%           | Free (A+,AU,BH,<br>CA,CL,D,E,IL,J,<br>JO,MA,MX,OM,<br>P,PE,SG)    | 45.5%   |
| 2825.90.75             | 00                   | Cadmium oxide .....   | kg .....               | Free           |   | 25%     |
| 2825.90.90             | 00                   | Other .....   | kg .....               | 3.7%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%     |

1/ See heading 9902.01.03.

2/ See subheading 9903.27.03.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-9

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty      |  |       |
|------------------------|----------------------|---|------------------------|--------------------|--|-------|
|                        |                      |   |                        | 1                  |  | 2     |
|                        |                      |   |                        | General            | Special  |       |
|                        |                      | <b>V. SALTS AND PEROXYSALTS, OF INORGANIC ACIDS AND METALS</b>  |                        |                    |  |       |
| 2826                   |                      | Fluorides; fluorosilicates, fluoroaluminates and other complex fluorine salts:                              |                        |                    |  |       |
|                        |                      | Fluorides:  |                        |                    |  |       |
| 2826.12.00             | 00                   | Of aluminum .....   | kg .....               | Free               |  | 25%   |
| 2826.19                |                      | Other:  |                        |                    |  |       |
| 2826.19.10             | 00                   | Of ammonium .....   | kg .....               | 3.1% <sup>1/</sup> | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%   |
| 2826.19.20             | 00                   | Of sodium .....   | kg .....               | 3.7%               | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%   |
| 2826.19.90             | 00                   | Other .....   | kg .....               | 3.9%               | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%   |
| 2826.30.00             | 00                   | Sodium hexafluoroaluminate (Synthetic cryolite) .....   | t .....                | Free               |  | Free  |
| 2826.90                |                      | Other:  |                        |                    |  |       |
| 2826.90.10             | 00                   | Fluorosilicates of sodium or of potassium .....   | kg .....               | 4.1%               | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 62.5% |
| 2826.90.90             | 00                   | Other .....   | kg .....               | 3.1%               | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%   |
| 2827                   |                      | Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides: |                        |                    |  |       |
| 2827.10.00             | 00                   | Ammonium chloride .....   | kg .....               | 2.9%               | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 18%   |
| 2827.20.00             | 00                   | Calcium chloride .....  | kg .....               | Free               |  | Free  |
| 2827.31.00             | 00                   | Other chlorides:  |                        |                    |  |       |
|                        |                      | Of magnesium .....  | kg .....               | 1.5%               | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 5%    |
| 2827.32.00             | 00                   | Of aluminum .....   | kg .....               | Free               |  | 25%   |
| 2827.35.00             | 00                   | Of nickel .....   | kg .....               | 3.7%               | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25%   |

<sup>1/</sup> See heading 9902.28.20.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-10

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description  | Unit<br>of<br>Quantity | Rates of Duty      |   |       |
|------------------------|----------------------|--|------------------------|--------------------|---|-------|
|                        |                      |  |                        | 1                  |   | 2     |
|                        |                      |  |                        | General            | Special   |       |
| 2827 (con.)            |                      | Chlorides, chloride oxides and chloride hydroxides;<br>bromides and bromide oxides; iodides and iodide oxides<br>(con.): |                        |                    |   |       |
| 2827.39                |                      | Other chlorides (con.):  |                        |                    |   |       |
| 2827.39.10             | 00                   | Other:   |                        |                    |   |       |
|                        |                      | Of vanadium .....  | kg .....               | 5.5%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE)<br>1.9% (SG) | 40%   |
|                        |                      | Of tin .....   | kg .....               | 4.2%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%   |
|                        |                      | Of titanium .....  | kg .....               | 4.9%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 30%   |
|                        |                      | Of tungsten .....  | kg .....               | 5.5%               | Free (A+,AU,BH,<br>CA,CL,D,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)    | 45.5% |
|                        |                      | Of barium .....  | kg .....               | 4.2%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 28.5% |
|                        |                      | Of iron .....  | kg .....               | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%   |
|                        |                      | Of cobalt .....  | kg .....               | 4.2%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 30%   |
|                        |                      | Of zinc .....  | kg .....               | 1.6%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 5%    |
|                        |                      | Other .....  | kg .....               | 3.7%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%   |
|                        |                      | Chloride oxides and chloride hydroxides:   |                        |                    |   |       |
|                        |                      | Of copper .....  | kg .....               | 3.9%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 32.5% |
|                        |                      | Other:   |                        |                    |   |       |
|                        |                      | Of vanadium .....  | kg .....               | 5.5%               | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE)<br>1.9% (SG) | 40%   |
|                        |                      | Other .....  | kg .....               | 5.5% <sup>1/</sup> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)       | 25%   |

<sup>1/</sup> See heading 9902.23.57.

<sup>2/</sup> See heading 9902.25.12.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-11

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description  | Unit<br>of<br>Quantity | Rates of Duty  |  |        |
|------------------------|----------------------|--|------------------------|----------------|--|--------|
|                        |                      |  |                        | 1              |  | 2      |
|                        |                      |  |                        | General        | Special  |        |
| 2827 (con.)            |                      | Chlorides, chloride oxides and chloride hydroxides;<br>bromides and bromide oxides; iodides and iodide oxides<br>(con.): |                        |                |  |        |
| 2827.51.00             | 00                   | Bromides and bromide oxides:   |                        |                |  |        |
|                        |                      | Bromides of sodium or of potassium . . . . .   | kg . . . . .           | Free           |  | 22¢/kg |
| 2827.59                |                      | Other:   |                        |                |  |        |
| 2827.59.25             | 00                   | Of ammonium, of calcium or of zinc . . . . .   | kg . . . . .           | Free           |  | 25%    |
| 2827.59.51             | 00                   | Other . . . . .  | kg . . . . .           | 3.6%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 25%    |
| 2827.60                |                      | Iodides and iodide oxides:   |                        |                |  |        |
| 2827.60.10             | 00                   | Of calcium or of copper . . . . .  | kg . . . . .           | Free           |  | 25%    |
| 2827.60.20             | 00                   | Of potassium . . . . .   | kg . . . . .           | 2.8%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 7.5%   |
| 2827.60.51             | 00                   | Other . . . . .  | kg . . . . .           | 4.2% <u>2/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) 2828 | 25%    |
| 2828.10.00             | 00                   | Hypochlorites; commercial calcium hypochlorite; chlorites;<br>hypobromites:  |                        |                |  |        |
|                        |                      | Commercial calcium hypochlorite and other calcium<br>hypochlorites . . . . .   | kg . . . . .           | 2.4%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 25%    |
| 2828.90.00             | 00                   | Other . . . . .  | kg . . . . .           | 3.7%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 25%    |
| 2829                   |                      | Chlorates and perchlorates; bromates and perbromates;<br>iodates and periodates:   |                        |                |  |        |
|                        |                      | Chlorates:   |                        |                |  |        |
| 2829.11.00             | 00                   | Of sodium . . . . .  | kg . . . . .           | Free           |  | 13%    |
| 2829.19.01             | 00                   | Other . . . . .  | kg . . . . .           | 3.3%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 25%    |
| 2829.90                |                      | Other:   |                        |                |  |        |
| 2829.90.05             | 00                   | Potassium bromate . . . . .  | kg . . . . .           | Free           |  | 25%    |
| 2829.90.25             | 00                   | Sodium bromate . . . . .   | kg . . . . .           | Free           |  | 25%    |
| 2829.90.40             | 00                   | Other:   |                        |                |  |        |
|                        |                      | Of potassium . . . . .   | kg . . . . .           | 3.1%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 25%    |
| 2829.90.61             | 00                   | Other . . . . .  | kg . . . . .           | 3.7%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 25%    |

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-12

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty |   |      |
|------------------------|----------------------|---|------------------------|---------------|---|------|
|                        |                      |   |                        | 1             |   | 2    |
|                        |                      |   |                        | General       | Special   |      |
| 2830                   |                      | Sulfides; polysulfides, whether or not chemically defined:                                  |                        |               |   |      |
| 2830.10.00             | 00                   | Sodium sulfides .....   | kg .....               | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%  |
| 2830.90                |                      | Other:  |                        |               |   |      |
| 2830.90.10             | 00                   | Zinc sulfide, luminescent grade having a purity of<br>99.99 percent or more by weight ..... | kg .....               | Free          |   | 11%  |
| 2830.90.15             | 00                   | Other zinc sulfide .....  | kg .....               | 2.8%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 11%  |
| 2830.90.20             | 00                   | Cadmium sulfide .....   | kg .....               | 3.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%  |
| 2830.90.90             | 00                   | Other .....   | kg .....               | 3%            | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%  |
| 2831                   |                      | Dithionites and sulfoxylates:   |                        |               |   |      |
| 2831.10                |                      | Of sodium:  |                        |               |   |      |
| 2831.10.10             | 00                   | Sodium formaldehyde sulfoxylate .....   | kg .....               | Free          |   | 35%  |
| 2831.10.50             | 00                   | Other .....   | kg .....               | 5.5%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE)              | 35%  |
| 2831.90.00             | 00                   | Other .....   | kg .....               | 5.5%          | 1.9% (SG)<br>Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE) | 35%  |
| 2832                   |                      | Sulfites; thiosulfates:   |                        |               |   |      |
| 2832.10.00             | 00                   | Sodium sulfites .....   | kg .....               | 1.5%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 4.5% |
| 2832.20.00             | 00                   | Other sulfites .....  | kg .....               | 3.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 25%  |
| 2832.30                |                      | Thiosulfates:   |                        |               |   |      |
| 2832.30.10             | 00                   | Sodium thiosulfate .....  | kg .....               | 1.5%          | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)      | 4.5% |
| 2832.30.50             | 00                   | Other .....   | kg .....               | 3.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)       | 4.5% |

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-13

| Heading/<br>Subheading | Stat<br>Suf-<br>fix | Article Description                            | Unit<br>of<br>Quantity | Rates of Duty |  |              |
|------------------------|---------------------|--|------------------------|---------------|--|--------------|
|                        |                     |  |                        | 1             |  | 2            |
|                        |                     |  |                        | General       | Special  |              |
| 2833                   |                     | Sulfates; alums; peroxosulfates (persulfates): |                        |               |  |              |
|                        |                     | Sodium sulfates:                               |                        |               |  |              |
| 2833.11                |                     | Disodium sulfate:                              |                        |               |  |              |
| 2833.11.10             | 00                  | Salt cake .....                                | t .....                | Free          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | Free<br>3.6% |
| 2833.11.50             |                     | Other .....                                    |                        | 0.4%          |  |              |
|                        | 10                  | Anhydrous .....                                | t .....                |               |  |              |
|                        | 50                  | Other .....                                    | t .....                |               |  |              |
| 2833.19.00             | 00                  | Other .....                                    | kg .....               | Free          |  | Free         |
|                        |                     | Other sulfates:                                |                        |               |  |              |
| 2833.21.00             | 00                  | Of magnesium .....                             | kg .....               | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 20%          |
| 2833.22.00             | 00                  | Of aluminum .....                              | kg .....               | Free          |  | 10%          |
| 2833.24.00             | 00                  | Of nickel .....                                | kg .....               | 3.2%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%          |
| 2833.25.00             | 00                  | Of copper .....                                | kg .....               | 1.4%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 5%           |
|                        |                     |  | Cu kg                  |               |  |              |
| 2833.27.00             | 00                  | Of barium .....                                | kg .....               | 0.6%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 4.2%         |
|                        |                     | Other:   |                        |               |  |              |
| 2833.29                |                     | Of cobalt .....                                | kg .....               | 1.4%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 6.5%         |
| 2833.29.10             | 00                  |  |                        |               |  |              |
| 2833.29.20             | 00                  | Of iron .....                                  | kg .....               | Free          |  | Free         |
| 2833.29.30             | 00                  | Of vanadium .....                              | kg .....               | 5.5%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE)                     | 40%          |
|                        |                     |  | V kg                   |               |  |              |
| 2833.29.40             | 00                  | Of chromium .....                              | kg .....               | 3.7%          | 1.9% (SG)<br>Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%          |
| 2833.29.45             | 00                  | Of zinc .....                                  | kg .....               | 1.6%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 8%           |
| 2833.29.51             | 00                  | Other .....                                    | kg .....               | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>K,MA,MX,OM,<br>P,PE,SG)            | 30%          |
| 2833.30.00             | 00                  | Alums .....                                    | kg .....               | 1.6%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%          |
|                        |                     | Peroxosulfates (persulfates):                  |                        |               |  |              |
| 2833.40                |                     | Of sodium .....                                | kg .....               | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%          |
| 2833.40.20             | 00                  |  |                        |               |  |              |
| 2833.40.60             | 00                  | Other .....                                    | kg .....               | 3.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 25%          |

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-14

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty  |   |       |
|------------------------|----------------------|---|------------------------|----------------|---|-------|
|                        |                      |   |                        | 1              |   | 2     |
|                        |                      |   |                        | General        | Special   |       |
| 2834                   |                      | Nitrites; nitrates:   |                        |                |   |       |
| 2834.10                |                      | Nitrites:   |                        |                |   |       |
| 2834.10.10             | 00                   | Of sodium .....   | kg .....               | 5.5%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG) | 54%   |
| 2834.10.50             | 00                   | Other .....   | kg .....               | 3.1%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%   |
| 2834.21.00             | 00                   | Nitrates:<br>Of potassium .....   | t .....                | Free           |   | Free  |
| 2834.29                |                      | Other:  |                        |                |   |       |
| 2834.29.05             | 00                   | Of bismuth .....  | kg .....               | 5.5%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG) | 35%   |
| 2834.29.10             | 00                   | Of calcium .....  | t .....                | Free           |   | Free  |
| 2834.29.20             | 00                   | Of strontium .....  | kg .....               | 4.2%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%   |
| 2834.29.51             | 00                   | Other .....   | kg .....               | 3.5%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 10%   |
| 2835                   |                      | Phosphinates (hypophosphites), phosphonates (phosphites) and phosphates; polyphosphates, whether or not chemically defined: |                        |                |   |       |
| 2835.10.00             | 00                   | Phosphinates (hypophosphites) and phosphonates (phosphites) .....   | kg .....               | 3.1% <u>1/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%   |
| 2835.22.00             | 00                   | Phosphates:<br>Of mono- or disodium .....   | kg .....               | 1.4%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 6%    |
| 2835.24.00             | 00                   | Of potassium .....  | kg .....               | 3.1%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%   |
| 2835.25.00             | 00                   | Calcium hydrogenorthophosphate ("Dicalcium phosphate") .....  | kg .....               | Free           |   | 25%   |
| 2835.26.00             | 00                   | Other phosphates of calcium .....   | kg .....               | Free           |   | 25%   |
| 2835.29                |                      | Other:  |                        |                |   |       |
| 2835.29.10             | 00                   | Of aluminum .....   | kg .....               | Free           |   | 25%   |
| 2835.29.20             | 00                   | Of triammonium .....  | kg .....               | 1.5%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 8.5%  |
| 2835.29.30             | 00                   | Of trisodium .....  | kg .....               | 2.2%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 11.5% |
| 2835.29.51             | 00                   | Other .....   | kg .....               | 4.1% <u>2/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%   |

1/ See heading 9902.22.44.

2/ See heading 9902.03.40.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-15

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description  | Unit<br>of<br>Quantity | Rates of Duty |  |     |
|------------------------|----------------------|--|------------------------|---------------|--|-----|
|                        |                      |  |                        | 1             |  | 2   |
|                        |                      |  |                        | General       | Special  |     |
| 2835(con.)             |                      | Phosphinates (hypophosphites), phosphonates (phosphites) and phosphates; polyphosphates, whether or not chemically defined (con.): |                        |               |  |     |
|                        |                      | Polyphosphates:  |                        |               |  |     |
| 2835.31.00             | 00                   | Sodium triphosphate (Sodium tripolyphosphate) . . .  | kg . . . . .           | 1.4%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 6%  |
|                        |                      | Other:   |                        |               |  |     |
| 2835.39                |                      | Of potassium . . . . .   | kg . . . . .           | 3.1%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25% |
| 2835.39.10             | 00                   |  |                        |               |  |     |
|                        |                      | Other . . . . .  | kg . . . . .           | 3.7%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25% |
| 2835.39.50             | 00                   |  |                        |               |  |     |



# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-16

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description  | Unit<br>of<br>Quantity | Rates of Duty |  |      |
|------------------------|----------------------|--|------------------------|---------------|--|------|
|                        |                      |  |                        | 1             |  | 2    |
|                        |                      |  |                        | General       | Special  |      |
| 2836                   |                      | Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate: |                        |               |  |      |
| 2836.20.00             | 00                   | Disodium carbonate . . . . .   | kg . . . . .           | 1.2%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG)     | 8.5% |
| 2836.30.00             | 00                   | Sodium hydrogencarbonate (Sodium bicarbonate) . . . . .  | kg . . . . .           | Free          |  | Free |
| 2836.40                |                      | Potassium carbonates:  |                        |               |  |      |
| 2836.40.10             | 00                   | Dipotassium carbonate . . . . .  | kg . . . . .           | 1.9%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, PzE,SG) | 6%   |
| 2836.40.20             | 00                   | Potassium hydrogencarbonate (Potassium bicarbonate) . . . . .  | kg . . . . .           | 1.3%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG)     | 4.8% |
| 2836.50.00             | 00                   | Calcium carbonate . . . . .  | kg . . . . .           | Free          |  | 25%  |
| 2836.60.00             | 00                   | Barium carbonate . . . . .   | kg . . . . .           | 2.3%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE,SG)      | 8.4% |
|                        |                      | Other:   |                        |               |  |      |
| 2836.91.00             |                      | Lithium carbonates . . . . .   |                        | 3.7%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG)     | 25%  |
|                        | 10                   | U.S.P. grade . . . . .   | kg                     |               |  |      |
|                        | 50                   | Other . . . . .  | kg                     |               |  |      |
| 2836.92.00             | 00                   | Strontium carbonate . . . . .  | kg . . . . .           | 4.2%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG)     | 25%  |
|                        |                      | Other:   |                        |               |  |      |
| 2836.99                |                      | Cobalt carbonates . . . . .  | kg . . . . .           | 4.2%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE,SG)      | 30%  |
| 2836.99.10             | 00                   |  |                        |               |  |      |
| 2836.99.20             | 00                   | Bismuth carbonate . . . . .  | kg . . . . .           | 5.5%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM, P,PE,SG)     | 35%  |
| 2836.99.30             | 00                   | Commercial ammonium carbonate and other ammonium carbonates . . . . .                                      | kg . . . . .           | 1.7%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG)     | 16%  |
| 2836.99.40             | 00                   | Lead carbonates . . . . .  | kg . . . . .           | 0.5%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG)     | 4.5% |
| 2836.99.50             | 00                   | Other . . . . .  | kg . . . . .           | 3.7%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG)     | 25%  |

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-17

| Heading/<br>Subheading | Stat<br>Suf-<br>fix | Article Description                            | Unit<br>of<br>Quantity | Rates of Duty |  |      |
|------------------------|---------------------|--|------------------------|---------------|--|------|
|                        |                     |  |                        | 1             |  | 2    |
|                        |                     |  |                        | General       | Special  |      |
| 2837                   |                     | Cyanides, cyanide oxides and complex cyanides: |                        |               |  |      |
|                        |                     | Cyanides and cyanide oxides:                   |                        |               |  |      |
| 2837.11.00             | 00                  | Of sodium .....                                | kg .....               | Free          |  | Free |
| 2837.19.01             |                     | Other .....                                    |                        | Free          |  | Free |
|                        | 10                  | Potassium cyanide .....                        | kg                     |               |  |      |
|                        | 15                  | Calcium cyanide .....                          | kg                     |               |  |      |
|                        | 25                  | Other .....                                    | kg                     |               |  |      |
| 2837.20                |                     | Complex cyanides:                              |                        |               |  |      |
| 2837.20.10             | 00                  | Potassium ferricyanide .....                   | kg .....               | 1.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 5.1% |
| 2837.20.51             | 00                  | Other .....                                    | kg .....               | 1.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 8.5% |
| 2839                   |                     | Silicates; commercial alkali metal silicates:  |                        |               |  |      |
|                        |                     | Of sodium:                                     |                        |               |  |      |
| 2839.11.00             | 00                  | Sodium metasilicates .....                     | kg .....               | 1.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 3%   |
| 2839.19.00             | 00                  | Other .....                                    | kg .....               | 1.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 3%   |
| 2839.90                |                     | Other:   |                        |               |  |      |
| 2839.90.10             | 00                  | Of potassium .....                             | kg .....               | 3.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 25%  |
| 2839.90.50             | 00                  | Other .....                                    | kg .....               | 3.1%          | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%  |
| 2840                   |                     | Borates; peroxoborates (perborates):           |                        |               |  |      |
|                        |                     | Disodium tetraborate (refined borax):          |                        |               |  |      |
| 2840.11.00             | 00                  | Anhydrous .....                                | kg .....               | 0.3%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 1.2% |
| 2840.19.00             | 00                  | Other .....                                    | kg .....               | 0.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 0.4% |
| 2840.20.00             | 00                  | Other borates .....                            | kg .....               | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 25%  |
| 2840.30.00             |                     | Peroxoborates (perborates) .....               |                        | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)  | 25%  |
|                        | 10                  | Sodium perborate .....                         | kg                     |               |  |      |
|                        | 50                  | Other .....                                    | kg                     |               |  |      |

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-18

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty |  |       |
|------------------------|----------------------|---|------------------------|---------------|--|-------|
|                        |                      |   |                        | 1             |  | 2     |
|                        |                      |   |                        | General       | Special  |       |
| 2841                   |                      | Salts of oxometallic or peroxometallic acids:                                 |                        |               |  |       |
| 2841.30.00             | 00                   | Sodium dichromate . . . . .   | kg . . . . .           | 2.4%          | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)   | 8.5%  |
| 2841.50                |                      | Other chromates and dichromates; peroxochromates:                             |                        |               |  |       |
| 2841.50.10             | 00                   | Potassium dichromate . . . . .  | kg . . . . .           | 1.5%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 3.5%  |
| 2841.50.91             | 00                   | Other . . . . .   | kg . . . . .           | 3.1%          | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)   | 25%   |
| 2841.61.00             | 00                   | Manganites, manganates and permanganates:<br>Potassium permanganate . . . . . | kg . . . . .           | 5%            | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)    | 23%   |
| 2841.69.00             |                      | Other . . . . .   |                        | 5%            | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)    | 23%   |
|                        | 10                   | Sodium permanganate . . . . .   | kg                     |               |  |       |
|                        | 90                   | Other . . . . .   | kg                     |               |  |       |
| 2841.70                |                      | Molybdates:   |                        |               |  |       |
| 2841.70.10             | 00                   | Of ammonium . . . . .   | kg . . . . .<br>Mo kg  | 4.3%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 29%   |
| 2841.70.50             | 00                   | Other . . . . .   | kg . . . . .<br>Mo kg  | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%   |
| 2841.80.00             |                      | Tungstates (wolframates) . . . . .  |                        | 5.5%          | Free (A+,AU,BH,<br>CA,CL,D,E,IL,J,<br>JO,MA,MX,OM,<br>P,PE,SG) | 49.5% |
|                        | 10                   | Of ammonium . . . . .   | kg                     |               |  |       |
|                        | 20                   | Of calcium . . . . .  | W kg                   |               |  |       |
|                        | 50                   | Other . . . . .   | kg                     |               |  |       |
|                        |                      | Other:  |                        |               |  |       |
| 2841.90                |                      | Vanadates . . . . .   | kg . . . . .<br>V kg   | 5.5%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,<br>P,PE,SG)       | 40%   |
| 2841.90.20             | 00                   | Ammonium perrhenate . . . . .   | kg . . . . .           | 3.1%          | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)   | 25%   |
| 2841.90.30             | 00                   | Potassium stannate . . . . .  | kg . . . . .           | 3.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%   |
| 2841.90.40             | 00                   | Aluminates . . . . .  | kg . . . . .           | 3.1%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>K,MA,MX,OM,P,PE,<br>SG)  | 25%   |
| 2841.90.45             | 00                   | Chromates of zinc or of lead . . . . .  | kg . . . . .           | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%   |
| 2841.90.50             | 00                   | Other . . . . .   | kg . . . . .           | 3.7%          | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)    | 25%   |

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-19

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty      |  |     |
|------------------------|----------------------|---|------------------------|--------------------|--|-----|
|                        |                      |   |                        | 1                  |  | 2   |
|                        |                      |   |                        | General            | Special  |     |
| 2842                   |                      | Other salts of inorganic acids or peroxyacids (including aluminosilicates whether or not chemically defined), other than azides:              |                        |                    |  |     |
| 2842.10.00             | 00                   | Double or complex silicates, including aluminosilicates whether or not chemically defined . . . . .   | kg . . . . .           | 3.7%               | Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,K,MA,MX,OM,P,PE,SG) | 25% |
| 2842.90                |                      | Other:  |                        |                    |  |     |
| 2842.90.10             | 00                   | Fulminates, cyanates and thiocyanates . . . . .   | kg . . . . .           | 3.1%               | Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)      | 25% |
| 2842.90.90             | 00                   | Other . . . . .   | kg . . . . .           | 3.3% <sup>1/</sup> | Free (A,AU,BH,CA,CL,E,IL,J,JO,K,MA,MX,OM,P,PE,SG)    | 25% |
| 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                   | Colloidal precious metals . . . . .   | g . . . . .            | 5.5%               | Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)   | 65% |
| 2843.21.00             | 00                   | Silver compounds:<br>Silver nitrate . . . . .   | kg . . . . .           | 3.7%               | Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)      | 25% |
| 2843.29.01             | 00                   | Other . . . . .   | kg . . . . .           | 3.7%               | Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)      | 25% |
| 2843.30.00             | 00                   | Gold compounds . . . . .  | kg . . . . .           | 5%                 | Free (A*,AU,BH,CA,CL,E,IL,J,JO,K,MA,MX,OM,P,PE,SG)   | 25% |
| 2843.90.00             | 00                   | Other compounds; amalgams . . . . .   | kg . . . . .           | 3.7%               | Free (A*,AU,BH,CA,CL,E,IL,J,JO,K,MA,MX,OM,P,PE,SG)   | 25% |

<sup>1/</sup> See heading 9902.05.32.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-20

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description  | Unit<br>of<br>Quantity | Rates of Duty |   |      |
|------------------------|----------------------|--|------------------------|---------------|---|------|
|                        |                      |  |                        | 1             |   | 2    |
|                        |                      |  |                        | General       | Special   |      |
| 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 cermets), ceramic products and mixtures containing natural uranium or natural uranium compounds:   |                        |               |   |      |
| 2844.10.10             | 00                   | Uranium metal . . . . .  | kg . . . . .           | 5%            | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM, P,PE,SG)    | 45%  |
| 2844.10.20             |                      | Uranium compounds . . . . .  |                        | Free          |   | Free |
|                        | 10                   | Oxide . . . . .  | kg . . . . .           |               |   |      |
|                        | 25                   | Hexafluoride . . . . .   | kg . . . . .           |               |   |      |
|                        | 55                   | Other . . . . .  | kg . . . . .           |               |   |      |
| 2844.10.50             | 00                   | Other . . . . .  | kg . . . . .           | 5%            | Free (A+,AU,BH, CA,CL,D,E,IL,J, JO,MA,MX,OM, P,PE,SG) | 45%  |
| 2844.20.00             |                      | Uranium enriched in U235 and its compounds; plutonium and its compounds; alloys, dispersions (including cermets), ceramic products and mixtures containing uranium enriched in U235, plutonium or compounds of these products . . . . .                                |                        | Free          |   | Free |
|                        |                      | Uranium compounds:   |                        |               |   |      |
|                        | 10                   | Oxide . . . . .  | kg . . . . .           |               |   |      |
|                        | 20                   | Fluorides . . . . .  | kg . . . . .           |               |   |      |
|                        | 30                   | Other . . . . .  | kg . . . . .           |               |   |      |
|                        | 50                   | Other . . . . .  | kg . . . . .           |               |   |      |
| 2844.30                |                      | Uranium depleted in U235 and its compounds; thorium and its compounds; alloys, dispersions (including cermets), ceramic products and mixtures containing uranium depleted in U235, thorium, or compounds of these products:  |                        |               |   |      |
| 2844.30.10             | 00                   | Thorium compounds . . . . .  | kg . . . . .           | 5.5%          | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM, P,PE,SG)    | 35%  |
| 2844.30.20             |                      | Uranium compounds . . . . .  |                        | Free          |   | Free |
|                        | 10                   | Oxide . . . . .  | kg . . . . .           |               |   |      |
|                        | 20                   | Fluorides . . . . .  | kg . . . . .           |               |   |      |
|                        | 50                   | Other . . . . .  | kg . . . . .           |               |   |      |
| 2844.30.50             |                      | Other . . . . .  |                        | 5%            | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM, P,PE,SG)    | 45%  |
|                        | 10                   | Uranium metal . . . . .  | kg . . . . .           |               |   |      |
|                        | 50                   | Other . . . . .  | kg . . . . .           |               |   |      |
| 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                   | Elements, isotopes and compounds with cobalt-60 radioactivity only . . . . .   | GBq . . . . .          |               |   |      |
|                        | 21                   | Other elements, isotopes and compounds: Americium-241, californium-252, curium-244, cesium-137, gadolinium-153, iridium-192, promethium-147, radium-266, selenium-75, or ytterbium-169 . . . . .   | MBq . . . . .          |               |   |      |
|                        | 28                   | Other . . . . .  | MBq . . . . .          |               |   |      |
|                        | 50                   | Other . . . . .  | X . . . . .            |               |   |      |
| 2844.50.00             | 00                   | Spent (irradiated) fuel elements (cartridges) of nuclear reactors . . . . .  | kg . . . . .           | Free          |   | Free |

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-21

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty  |   |       |
|------------------------|----------------------|---|------------------------|----------------|---|-------|
|                        |                      |   |                        | 1              |   | 2     |
|                        |                      |   |                        | General        | Special   |       |
| 2845                   |                      | Isotopes other than those of heading 2844; com-<br>pounds, inorganic or organic, of such isotopes,<br>whether or not chemically defined:                      |                        |                |   |       |
| 2845.10.00             | 00                   | Heavy water (Deuterium oxide) . . . . .   | kg . . . . .           | Free           |   | 25%   |
| 2845.90.00             | 00                   | Other . . . . .   | kg . . . . .           | Free           |   | 25%   |
| 2846                   |                      | Compounds, inorganic or organic, of rare-earth metals,<br>of yttrium or of scandium, or of mixtures of these metals:  |                        |                |   |       |
| 2846.10.00             | 00                   | Cerium compounds . . . . .  | kg . . . . .           | 5.5% <u>1/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P,PE,SG)   | 35%   |
| 2846.90                |                      | Other:  |                        |                |   |       |
| 2846.90.20             |                      | Mixtures of rare-earth oxides or of rare-earth<br>chlorides . . . . .   |                        | Free           |   | 25%   |
|                        | 10                   | Rare-earth oxides except cerium oxide . . . . .   | kg                     |                |   |       |
|                        | 50                   | Other . . . . .   | kg                     |                |   |       |
| 2846.90.40             | 00                   | Other:<br>Yttrium bearing materials and compounds<br>containing by weight more than 19 percent but<br>less than 85 percent yttrium oxide equivalent . . . . . | kg . . . . .           | Free           |   | 25%   |
| 2846.90.80             | 00                   | Other . . . . .   | kg . . . . .           | 3.7% <u>2/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>K,MA,MX,OM,P,PE,<br>SG) | 25%   |
| 2847.00.00             | 00                   | Hydrogen peroxide, whether or not solidified with urea . . . . .  | kg . . . . .           | 3.7%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)   | 25%   |
| 2848.00                |                      | Phosphides, whether or not chemically defined,<br>excluding ferrophosphorus:  |                        |                |   |       |
| 2848.00.10             | 00                   | Of copper (phosphor copper), containing more than<br>15 percent by weight of phosphorus . . . . .   | kg . . . . .           | 2.6%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)   | 32.5% |
| 2848.00.90             | 00                   | Of other metals or of nonmetals . . . . .   | kg . . . . .           | Free           |   | 25%   |

1/ See headings 9902.23.05 and 9902.23.06.

2/ See headings 9902.02.21, 9902.02.22, 9902.10.77, 9902.10.78 9902.23.03, 9902.23.04, 9902.23.05 and 9902.23.06.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-22

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty  |   |       |
|------------------------|----------------------|---|------------------------|----------------|---|-------|
|                        |                      |   |                        | 1              |   | 2     |
|                        |                      |   |                        | General        | Special   |       |
| 2849                   |                      | Carbides, whether or not chemically defined:  |                        |                |   |       |
| 2849.10.00             | 00                   | Of calcium .....  | kg .....               | 1.8%           | Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)              | 10%   |
| 2849.20                |                      | Of silicon:   |                        |                |   |       |
| 2849.20.10             | 00                   | Crude .....   | kg .....               | Free <u>1/</u> |   | Free  |
| 2849.20.20             | 00                   | In grains, or ground, pulverized or<br>refined .....  | kg .....               | 0.5% <u>1/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)               | 1.6%  |
| 2849.90                |                      | Other:  |                        |                |   |       |
| 2849.90.10             | 00                   | Of boron .....  | kg .....               | 3.7%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)               | 25%   |
| 2849.90.20             | 00                   | Of chromium .....   | kg .....               | 4.2%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)               | 25%   |
| 2849.90.30             | 00                   | Of tungsten .....   | kg .....               | 5.5%           | Free (A+,AU,BH,<br>CA,CL,D,E,IL,J,<br>JO,MA,MX,OM,<br>P,PE,SG)            | 55.5% |
|                        |                      |   | W kg                   |                |   |       |
| 2849.90.50             | 00                   | Other .....   | kg .....               | 3.7%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)               | 25%   |
| 2850.00                |                      | Hydrides, nitrides, azides, silicides and borides, whether<br>or not chemically defined, other than compounds which<br>are also carbides of heading 2849: |                        |                |   |       |
| 2850.00.05             | 00                   | Of calcium .....  | kg .....               | Free           |   | 25%   |
| 2850.00.07             | 00                   | Of titanium .....   | kg .....               | 4.9% <u>2/</u> | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)               | 30%   |
| 2850.00.10             | 00                   | Of tungsten .....   | kg .....               | 5.5%           | Free (A+,AU,BH,<br>CA,CL,D,E,IL,J,<br>JO,MA,MX,OM,<br>P,PE,SG)            | 45.5% |
|                        |                      |   | W kg                   |                |   |       |
| 2850.00.20             | 00                   | Of vanadium .....   | kg .....               | 5.5%           | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,<br>P)                     | 40%   |
|                        |                      |   | V kg                   |                |   |       |
| 2850.00.50             | 00                   | Other .....   | kg .....               | 3.7%           | 1.9% (SG)<br>Free (A*,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG) | 25%   |
| 2852.00                |                      | Compounds, inorganic or organic, of mercury, excluding<br>amalgams:   |                        |                |   |       |
| 2852.00.10             | 00                   | Mercuric oxide, mercuric cyanide, mercuric oxycyanide<br>And mercuric potassium cyanide .....   | kg                     | Free           |   | 25%   |
| 2852.00.90             | 00                   | Other .....   | kg                     | 3%             | Free (A,AU,BH,<br>CA,CL,E,IL,J,JO,<br>MA,MX,OM,P,PE,<br>SG)               | 25%   |

1/ See subheading 9903.27.04.

2/ See heading 2850.00.07.

# Harmonized Tariff Schedule of the United States (2009) (Rev. 1)

Annotated for Statistical Reporting Purposes

VI  
28-23

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description   | Unit<br>of<br>Quantity | Rates of Duty  |  |     |
|------------------------|----------------------|---|------------------------|----------------|--|-----|
|                        |                      |   |                        | 1              |  | 2   |
|                        |                      |   |                        | General        | Special  |     |
| 2853.00.00             |                      | 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% <u>1/</u> | Free (A,AU,BH, CA,CL,E,IL,J,JO, MA,MX,OM,P,PE, SG) | 25% |
|                        | 05                   | Cyanogen chloride .....   | kg                     |                |  |     |
|                        | 10                   | Gallium arsenide wafers, undoped .....  | kg                     |                |  |     |
|                        | 95                   | Other .....   | kg                     |                |  |     |

1/ See heading 9902.10.75.