



CERTIFICATION BODY ACCREDITATION PROGRAM (CBAP)

Scope of Accreditation

Accredited Legal Entity: UL LLC

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SCC File #:	10011
Initial Accreditation Date:	1992-10-28
Reaccreditation Date:	2014-08-27
Accreditation Expiry Date:	2017-10-28
Accreditation Standard:	ISO/IEC 17065 Requirements and Guidance - Product, Process, and Service Certification Body Accreditation Program

Additional Critical/Key Locations:

The certification activities conducted by the above-mentioned legal entity at the following locations are also included in this scope of accreditation:

Location	Country	Address	City
A	Canada	Underwriters' Laboratories of Canada 6505 Trans-Canada Highway, Suite 330 St.-Laurent, PQ H4T 1S3	Montreal
B	Canada	Underwriters' Laboratories of Canada	Toronto



Location	Country	Address	City
		7 Underwriters Road, Toronto, ON M1R 3A9	
C	Canada	Underwriters' Laboratories of Canada #130-13775 Commerce Parkway Richmond, BC V6V 2V4	Vancouver
D	USA	UL LLC 2929 E. Imperial Highway, Suite 100 Brea, CA 92821-6729	Brea
E	USA	UL LLC 2600 N.W. Lake Road Camas, WA 98607-8542	Camas
F	USA	UL LLC 1285 Walt Whitman Rd. Melville, NY 11747-3081	Melville
G	USA	UL LLC 801 Klein Rd., Suite 200 Plano, TX 75074	Dallas
H	USA	UL LLC 12 Laboratory Dr., Research Triangle Park Durham, NC 27709-3995	Durham
I	USA	UL LLC 455 E Trimble Rd San Jose CA 95131-1230	San Jose
J	USA	UL-LLC 2191 Zanker Road San Jose, CA 95131	San Jose
K	USA	UL LLC 2222 Woodale Drive, Suite 300 Moundsview, MN 55112	Minneapolis
L	USA	UL LLC 3020 1st Avenue East Newton, IA 50208-2705	Iowa
M	Brazil	UL do Brasil Rua Fidêncio Ramos, 195 - 5 AndarSão Paulo, São Paulo, 04551-010	São Paulo
N	Mexico	UL de Mexico, S.A. de C.V. Blas Pascal 204, Piso 2 Los Morales, Distrito Federal,	Mexico City



Location	Country	Address	City
		11510	
O	Denmark	UL International Demko A/S Borupvang 5A 2750 Ballerup	Ballerup
P	France	UL International (France) SA Domaine Technologique de Saclay, Batiment Apollo, 4, rue Rene Razel Saclay, F-91400	Saclay
Q	Germany	UL International Germany GmbH Fritz-Hommel-Weg 4 Munchen, D-80805	Munich
R	Germany	UL International Germany GmbH Admiral - Rosendahl - Strasse 9, 23 63263 Neu-Isenburg (Zeppelinheim)	Neu-Isenburg
S	Italy	UL International Italia S.r.l Via Delle Industrie, 1 & 6 Carugate, Milano 20061	Carugate
T	Netherlands	UL International (Netherlands) B.V. Delta 1A, Business Park IJsseloord 2 6825 ML, Arnhem	Arnhem
U	Poland	UL International Polska Aleja Krakowska 81 Sekocin Nowy k. Warszawy 05- 090	Warsaw
V	Spain	Underwriters Laboratories Iberica, S.L. Avinguda Diagonal 407, 4 1 Barcelona 08008	Barcelona
W	Sweden	UL International (Sweden) AB Stormbyvagen 2-4, Spanga Center Spanga S-163 29	Spanga
X	United Kingdom	UL International (UK) Limited Wonersh House; The Guildway; Old Portsmouth Road, Guildford, Surrey, GU3 1LR	Guildford
Y	United Kingdom	UL International (UK) Limited 220 Cygnet Court, Centre Park	Warrington

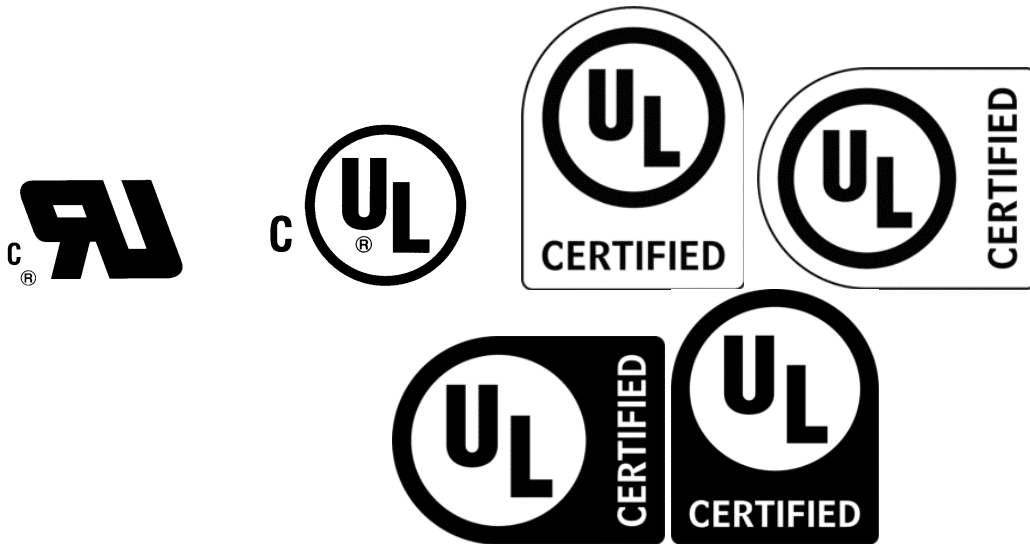


Location	Country	Address	City
		Warrington, Cheshire WA1 1PP	
Z	China	UL-CCIC Company Limited Electronic Building, Parage Electronic Industrial Park; No. 8 Nanyun Er Road, Guangzhou Science Park, Guangzhou 510663	Nanyun Er Guangzhou
AA	China	UL-CCIC Company Limited 38F, CIRO's Plaza, 388 West Nanjing Road, Shanghai 200003	Shanghai
AB	China	UL International Limited 18 Floor, Delta House; 3 On Yiu Street Shatin	On Yiu Hong Kong
AC	China	UL-CCIC Company Limited No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou, Jiangsu 215122	Suzhou
AD	India	UL India Private Limited Kalyani Platina, 3rd Floor, Block 1, No.24, EPIP Zone, Phase II Bangalore, Karnataka 560017	Bangalore
AE	Japan	UL Japan, Inc. 4383-326 Asama-cho Ise-shi, Mie, 516-0021 3600-18 Asama-cho Ise-shi, Mie 516-0021	Ise-shi
AF	Japan	UL Japan, Inc. 6F, Marunouchi Trust Tower, 1-8- 3 Marunouchi, Chiyoda-ku Tokyo, 100-0005	Tokyo
AG	Korea	UL Korea Ltd. 26rd FL. Gangnam Finance Center, 152 Teheran-ro Gangnam-gu Seoul 132-984	Seoul
AH	Singapore	UL International- Singapore Private Limited 20 Kian Teck Lane, Singapore 627 854	Kian Teck Singapore
AI	Taiwan	Underwriters Laboratories Taiwan Co., Ltd. 1st Floor, No. 260 Da-Yeh Road, Pei Tou & 4th 5th Floor, No. 35,	Taipei



Location	Country	Address	City
		Sec 2, ChungYang S Rd, Pei Tou Taipei 112	
AJ	Thailand	Underwriters Laboratories (Thailand) Limited Level 29, Central World Tower, 999/9 Rama I Road Kwaeng Pathumwan, Khet Pathumwan Bangkok 10330	Bangkok

Certification Mark:



Product Certification Scheme:

ISO/IEC 17067, Conformity assessment - Fundamentals of product certification and guidelines for product certification schemes, scheme type 3 most closely resembles the product certification scheme operated by this organization. The surveillance part of this scheme involves periodically taking samples of the product from the point of production and subjecting them to determination activities to check that items produced subsequent to the initial attestation fulfil the specified requirements. The surveillance includes periodic assessment of the production process. This scheme does not provide any indication of the impact the distribution channel plays on conformity. When serious nonconformities are found, the opportunity may exist to resolve them before widespread market distribution occurs.



Product Certification Scheme:

ISO/IEC 17067, Conformity assessment - Fundamentals of product certification and guidelines for product certification schemes, scheme type 4 most closely resembles the product certification scheme operated by this organization. The surveillance part of this scheme allows for the choice between periodically taking samples of the product from the point of production, or from the market, or from both, and subjecting them to determination activities to check that items produced subsequent to the initial attestation fulfil the specified requirements. The surveillance includes periodic assessment of the production process. This scheme can both indicate the impact of the distribution channel on conformity and provide a pre-market mechanism to identify and resolve serious nonconformities. Significant duplication of effort may take place for those products whose conformity is not affected during the distribution process.

Scope of Accreditation:

The scope of accreditation for the above-mentioned legal entity limits the use of the certification mark shown, to products that meet standards classified by the following international classification coding:

ICS No.	Title	Purpose
11.040.10	Anaesthetic, respiratory and reanimation equipment	Electrical Safety
11.040.20	Transfusion, infusion and injection equipment	Electrical Safety
11.040.30	Surgical instruments and materials	Performance
11.040.50	Radiographic equipment	Electrical Safety
11.040.55	Diagnostic equipment	Electrical Safety
11.040.60	Therapy equipment	Electrical Safety
11.060.20	Dental equipment	Electrical Safety and Performance
11.080.10	Sterilization equipment	Electrical Safety
11.140	Hospital equipment	Electrical Safety
11.180.10	Aids and adaptation for moving	Electrical Safety
11.220	Veterinary medicine	Electrical Safety
13.030.20	Liquid wastes. Sludge	Health
13.030.30	Special wastes	Health, Performance
13.030.40	Installations and equipment for waste disposal and treatment	Electrical Safety, Performance
13.030.50	Recycling	Electrical Safety, Health
13.060.20	Drinking water	Health
13.060.50	Examination of water for chemical substances	Health
13.060.60	Examination of physical properties of water	Health
13.060.70	Examination of biological properties of water	Health
13.110	Safety of machinery	Safety



ICS No.	Title	Purpose
13.140	Noise with respect to human beings	Safety
13.220.10	Fire-fighting	Performance
13.220.20	Fire protection	Performance
13.220.40	Ignitability and burning behaviour of materials and products	Performance
13.220.50	Fire-resistance of building materials and elements	Performance
13.230	Explosion protection	Electrical Safety and Performance
13.240	Protection against excessive pressure	Performance
13.260	Protection against electric shock	Electrical Safety
13.280	Radiation protection	Performance
13.310	Protection against crime	Performance
13.320	Alarm and warning systems	Electrical Safety and Performance
13.340.10	Protective clothing	Performance
13.340.20	Head protective equipment	Performance
13.340.40	Protective gloves	Performance
13.340.50	Protective footwear	Performance
19.080	Electrical and electronic testing	Electrical Safety
23.020.10	Stationary containers and tanks	Performance
23.020.30	Gas pressure vessels, gas cylinders	Performance
23.040.10	Iron and steel pipes	Performance
23.040.20	Plastics pipes	Performance
23.040.40	Metal fittings	Performance
23.040.45	Plastics fittings	Performance
23.040.50	Pipes and fittings of other materials	Performance
23.040.60	Flanges, couplings and joints	Performance
23.040.70	Hoses and hose assemblies	Performance
23.040.80	Seals for pipe and hose assemblies	Performance
23.060.10	Globe valves	Performance
23.060.20	Ball and plug valves	Performance
23.060.30	Gate valves	Performance
23.060.40	Pressure regulators	Performance
23.060.50	Check valves	Performance
23.080	Pumps	Performance
23.100.10	Pumps and motors	Performance
23.100.20	Cylinders	Performance
23.100.40	Piping and couplings	Performance
23.100.50	Control components	Performance
23.100.60	Filters, seals and contamination of fluids	Performance
23.120	Ventilators. Fans. Air-conditioners	Performance and Energy Efficiency
23.140	Compressors and pneumatic machines	Performance
25.040.10	Machining centres	Performance



ICS No.	Title	Purpose
25.040.20	Numerically controlled machines	Performance
25.040.30	Industrial robots. Manipulators	Performance
25.040.40	Industrial process measurement and control	Performance
25.080.10	Lathes	Electrical Safety
25.080.20	Boring and milling machines	Electrical Safety
25.080.25	Planing machines	Electrical Safety
25.080.30	Broaching machines	Electrical Safety
25.080.40	Drilling machines	Electrical Safety
25.080.50	Grinding and polishing machines	Electrical Safety
25.080.60	Sawing machines	Electrical Safety
25.100.10	Turning tools	Performance
25.100.20	Milling tools	Performance
25.100.25	Tools for planing and broaching machines	Performance
25.100.30	Drills, countersinks, reamers	Performance
25.100.40	Saws	Performance
25.100.50	Taps and threading dies	Performance
25.120.10	Forging equipment. Presses. Shears	Electrical Safety
25.120.20	Rolling, extruding and drawing equipment	Electrical Safety
25.140.10	Pneumatic tools	Performance
25.140.20	Electric tools	Electrical Safety
25.160.30	Welding equipment	Electrical Safety
25.180.10	Electric furnaces	Electrical Safety
25.180.20	Fuel furnaces	Electrical Safety
27.060.10	Liquid and solid fuel burners	Performance
27.060.20	Gas fuel burners	Performance
27.060.30	Boilers and heat exchangers	Performance
27.070	Fuel cells	Performance
27.080	Heat pumps	Performance and Energy Efficiency
27.160	Solar energy engineering	Performance
27.180	Wind turbine systems and other alternative sources of energy	Performance
27.200	Refrigerating technology	Electrical Safety, Health, Performance
29.020	Electrical engineering in general	Performance
29.035.10	Paper and board insulating materials	Performance
29.035.20	Plastics and rubber insulating materials	Performance
29.035.60	Varnished fabrics	Performance
29.060.10	Wires	Electrical Safety
29.060.20	Cables	Electrical Safety
29.080.10	Insulators	Performance
29.080.20	Bushings	Performance
29.080.30	Insulating systems	Performance
29.100.10	Magnetic components	Electrical Safety
29.100.20	Electrical and electromechanical components	Electrical Safety



ICS No.	Title	Purpose
29.120.10	Conduits for electrical purposes	Electrical Safety
29.120.20	Connecting devices	Electrical Safety
29.120.30	Plugs, socket-outlets, couplers	Electrical Safety
29.120.40	Switches	Electrical Safety
29.120.50	Fuses and other overcurrent protection devices	Electrical Safety
29.120.70	Relays	Electrical Safety
29.130.10	High voltage switchgear and controlgear	Electrical Safety
29.130.20	Low voltage switchgear and controlgear	Electrical Safety
29.140.10	Lamp caps and holders	Electrical Safety
29.140.20	Incandescent lamps	Electrical Safety, Health
29.140.30	Fluorescent lamps. Discharge lamps	Electrical Safety, Health
29.140.40	Luminaires	Electrical Safety, Health
29.140.50	Lighting installation systems	Electrical Safety
29.160.10	Components for rotating machinery	Electrical Safety
29.160.20	Generators	Electrical Safety
29.160.30	Motors	Electrical Safety and Energy Efficiency
29.160.40	Generating sets	Electrical Safety
29.180	Transformers. Reactors	Electrical Safety and Energy Efficiency
29.200	Rectifiers. Convertors. Stabilized power supply	Electrical Safety
29.220.10	Primary cells and batteries	Performance
29.220.20	Acid secondary cells and batteries	Performance
29.220.30	Alkaline secondary cells and batteries	Performance
29.240.10	Substations. Surge arresters	Performance
29.240.30	Control equipment for electric power systems	Performance
29.260.10	Electrical installations for outdoor use	Electrical Safety and Performance
29.260.20	Electrical apparatus for explosive atmospheres	Electrical Safety and Performance
31.020	Electronic components in general	Electrical Safety
31.040.10	Fixed resistors	Electrical Safety
31.040.20	Potentiometers, variable resistors	Electrical Safety
31.040.30	Thermistors	Electrical Safety
31.060.10	Fixed capacitors	Electrical Safety
31.060.20	Ceramic and mica capacitors	Electrical Safety
31.060.30	Paper and plastics capacitors	Electrical Safety
31.060.40	Tantalum electrolytic capacitors	Electrical Safety
31.060.50	Aluminum electrolytic capacitors	Electrical Safety
31.060.60	Variable capacitors	Electrical Safety
31.060.70	Power capacitors	Electrical Safety
31.080.10	Diodes	Electrical Safety



ICS No.	Title	Purpose
31.080.20	Thyristors	Electrical Safety
31.080.30	Transistors	Electrical Safety
31.100	Electronic tubes	Electrical Safety
31.120	Electronic display devices	Electrical Safety
31.140	Piezoelectric and dielectric devices	Electrical Safety
31.160	Electric Filters	Electrical Safety
31.180	Printed circuits and boards	Electrical Safety
31.190	Electronic component assemblies	Electrical Safety
31.200	Integrated circuits. Microelectronics	Electrical Safety
31.220.10	Plug-and-socket devices. Connectors	Electrical Safety
31.220.20	Switches	Electrical Safety
31.240	Mechanical structures for electronic equipment	Electrical Safety
31.260	Optoelectronics. Laser equipment	Electrical Safety
33.020	Telecommunications in general	Electrical Safety
33.030	Telecommunication services. Applications	Electrical Safety
33.040.40	Data communication networks	Electrical Safety
33.040.50	Lines, connections and circuits	Electrical Safety
33.050.10	Telephone equipment	Electrical Safety
33.050.20	Paging equipment	Electrical Safety
33.050.30	Equipment for telex, teletext, telefax	Electrical Safety
33.060.20	Receiving and transmitting equipment	Electrical Safety
33.060.30	Radio relay and fixed satellite communications systems	Electrical Safety
33.060.40	Cabled distribution systems	Electrical Safety
33.080	Integrated Services Digital Network (ISDN)	Electrical Safety
33.100.10	Emission	Performance
33.100.20	Immunity	Performance
33.120.10	Coaxial cables. Waveguides	Electrical Safety
33.120.20	Wires and symmetrical cables	Electrical Safety
33.160.10	Amplifiers	Electrical Safety
33.160.20	Radio receivers	Electrical Safety
33.160.25	Television receivers	Electrical Safety
33.160.30	Audio systems	Electrical Safety
33.160.40	Video systems	Electrical Safety
33.160.50	Accessories	Electrical Safety
33.160.60	Multimedia systems and teleconferencing equipment	Electrical Safety
33.180.10	Fibres and cables	Electrical Safety
33.180.20	Fibre optic interconnecting devices	Electrical Safety
33.180.30	Optic amplifiers	Electrical Safety
33.200	Telecontrol. Telemetry	Electrical Safety
35.020	Information technology (IT) in general	Electrical Safety
35.080	Software development and system documentation	Electrical Safety
35.160	Microprocessor systems	Electrical Safety



ICS No.	Title	Purpose
35.180	IT terminal and other peripheral equipment	Electrical Safety
35.200	Interface and interconnection equipment	Electrical Safety
35.240.40	IT applications in banking	Electrical Safety
35.260	Office machines	Electrical Safety
37.040.10	Photographic equipment. Projectors	Electrical Safety
37.060.10	Motion picture equipment	Electrical Safety
37.100.10	Reproduction equipment	Electrical Safety
39.040.20	Clocks	Electrical Safety
43.040.10	Electrical and electronic equipment	Electrical Safety
43.040.20	Lighting, signaling and warning devices	Electrical Safety
43.040.40	Braking systems	Electrical Safety
43.060.40	Fuel systems	Performance
43.060.50	Electrical and electronic equipment. Control systems.	Electrical Safety
43.180	Diagnostic, maintenance and test equipment	Electrical Safety
47.020.05	Materials and components for shipbuilding	Electrical Safety
47.020.60	Electrical equipment of ships and of marine structures	Electrical Safety
47.020.90	Marine ventilation, air-conditioning and heating systems	Electrical Safety
47.040	Seagoing vessels	Performance
47.060	Inland navigation vessels	Performance
47.080	Small craft	Performance
53.020.20	Cranes	Electrical Safety, Performance
53.040.10	Conveyors	Electrical Safety, Health, Performance
53.040.20	Components for conveyors	Health, Performance
53.060	Industrial trucks	Performance
53.080	Storage equipment	Health, Performance
55.040	Packaging materials and accessories	Health
55.100	Bottles. Pots. Jars	Health
55.120	Cans. Tins. Tubes	Health, Performance
55.140	Barrels. Drums. Canisters	Health
55.180.30	Air mode containers, pallets and nets	Performance
55.200	Packaging machinery	Electrical Safety, Performance, Health
55.220	Storing. Warehousing	Health
55.230	Distribution and vending machines	Electrical Safety, Health
59.080.60	Textile floor coverings	Performance
61.080	Sewing machines and other equipment for the clothing industry	Electrical Safety
65.060.70	Horticultural equipment	Electrical Safety
65.060.80	Forestry equipment	Health



ICS No.	Title	Purpose
65.100.10	Insecticides	Performance
67.020	Processes in the food industry	Health
67.050	General methods of tests and analysis for food products	Health, Performance
67.240	Sensory analysis	Health, Performance
67.250	Materials and articles in contact with foodstuffs	Health
67.260	Plant and equipment for the food industry	Electrical Safety, Health, Performance
71.040.10	Chemical laboratories. Laboratory equipment	Performance
71.040.40	Chemical analysis	Performance
71.100.45	Refrigerants and antifreezes	Performance
73.100.20	Ventilation, air-conditioning and illumination equipment	Electrical Safety
73.120	Equipment for processing of minerals	Electrical Safety
75.200	Petroleum, petroleum products and natural gas handling equipment	Performance, Safety
77.060	Corrosion of metals	Performance
79.120.10	Woodworking machines	Electrical Safety, Performance
83.040.20	Rubber compounding ingredients	Performance
83.040.30	Auxiliary materials and additives for plastics	Performance
83.060	Rubber	Performance
83.080.10	Thermosetting materials	Performance
83.080.20	Thermoplastic materials	Performance
83.120	Reinforced plastics	Performance
83.140.10	Films and sheets	Performance
83.140.20	Laminated sheets	Performance
83.140.30	Plastics pipes, fittings and valves	Performance
83.140.40	Hoses	Performance
83.140.50	Seals	Performance
83.180	Adhesives	Performance
87.020	Paint coating processes	Performance
87.040	Paints and varnishes	Performance
87.080	Inks. Printing inks	Performance
87.100	Paint coating equipment	Performance
91.060.10	Walls. Partitions. Façades	Performance
91.060.20	Roofs	Performance
91.060.30	Ceilings. Floors. Stairs	Performance
91.060.40	Chimneys, shafts, ducts	Performance
91.060.50	Doors and windows	Performance
91.080.40	Concrete structures	Performance
91.100.10	Cement. Gypsum. Lime. Mortar	Performance
91.100.30	Concrete and concrete products	Performance
91.100.60	Thermal and sound insulating materials	Performance
91.120.10	Thermal insulation of buildings	Performance



ICS No.	Title	Purpose
91.120.30	Waterproofing	Performance
91.120.40	Lightning protection	Performance
91.140.10	Central heating systems	Performance and Energy Efficiency
91.140.30	Ventilation and air-conditioning	Performance, Health
91.140.40	Gas supply systems	Electrical Safety
91.140.50	Electricity supply systems	Electrical Safety
91.140.60	Water supply systems	Health
91.140.65	Water heating equipment	Electrical Safety
91.140.70	Sanitary installations	Health
91.140.80	Drainage systems	Health
91.140.90	Lifts. Escalators	Electrical Safety and Performance, AECO
91.160.10	Interior lighting	Performance and Energy Efficiency
91.160.20	Exterior building lighting	Performance
91.190	Building accessories	Electrical Safety
91.220	Construction equipment	Electrical Safety
93.030	External sewage systems	Electrical Safety
93.080.30	Road equipment and installations	Electrical Safety, Performance
93.080.40	Street lighting and related equipment	Electrical Safety
97.030	Domestic electrical appliances in general	Electrical Safety, Health
97.040.10	Kitchen Furniture	Health
97.040.20	Cooking ranges, working tables, ovens and similar appliances	Electrical Safety, Health and Energy Efficiency
97.040.30	Domestic refrigerating appliances	Electrical Safety, Health and Energy Efficiency
97.040.40	Dishwashers	Electrical Safety, Health and Energy Efficiency
97.040.50	Small kitchen appliances	Electrical Safety, Health
97.040.60	Cookware, cutlery and flatware	Health
97.060	Laundry appliances	Electrical Safety, Health and Energy Efficiency
97.080	Floor treatment appliances	Electrical Safety
97.100.10	Electric heaters	Electrical Safety, Health, Performance



ICS No.	Title	Purpose
97.100.20	Gas heaters	Performance, Health and Energy Efficiency
97.100.30	Solid fuel heaters	Performance and Energy Efficiency
97.100.40	Liquid fuel heaters	Performance and Energy Efficiency
97.120	Automatic controls for household use	Performance
97.130.10	Shelving	Performance, Health
97.130.20	Commercial refrigerating appliances	Performance, Health and Energy Efficiency
97.140	Furniture	Performance
97.145	Ladders	Performance
97.150	Non-textile floor coverings	Performance
97.170	Body care equipment	Electrical Safety, Performance
97.195	Items of art and handicrafts	Safety
97.200.10	Theater, stage and studio equipment	Performance
97.200.20	Musical instruments	Performance
97.200.30	Camping equipment and camp-sites	Performance
97.200.50	Toys	Electrical Safety
97.220.10	Sports facilities	Electrical Safety
97.220.30	Indoor sports equipment	Electrical Safety
97.220.40	Outdoor and water sports equipment	Performance