



Republic of the Philippines
Department of Finance
Bureau of Customs
1099 Manila

August 15, 2016

CUSTOMS MEMORANDUM CIRCULAR
No. 112-2016

To: All Deputy Commissioners
All Directors and Division Chiefs
All District / Port Collectors
All Others Concerned

SUBJECT: BPS Memorandum Circular No. 16-01 S. 2016 / List of Products under Mandatory Certification

Attached is the letter dated August 10, 2016 of Atty. Ann Claire C. Cabochan, Officer-In-Charge, Consumer Protection Group, Department of Trade and Industry (DTI), furnishing the Bureau with a copy of BPS Memorandum Circular No. 16-01 entitled: "List of Products under Mandatory Certification".

For your information and guidance.

Please confirm the dissemination of this circular throughout your offices within fifteen (15) days from receipt hereof.


NICANOR E. FAELDON
Commissioner



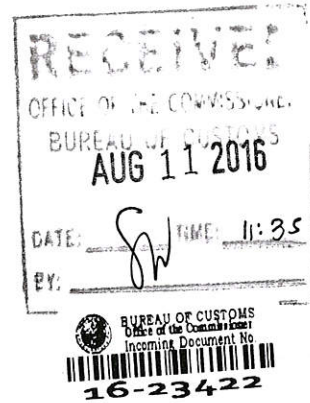
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10 August 2016

Commissioner NICANOR E. FAELDON
 BUREAU OF CUSTOMS
 Port Area, South Harbor, Manila



Dear Commissioner Faeldon:

This refers to the processing of Import Commodity Clearance (ICC) by the Bureau of Philippine Standards (BPS) of the Department of Trade and Industry.

Please be informed that the Bureau of Philippine Standards shall only issue a Certificate of Exemption for:

1. Products included in the mandatory list but not within the scope of specific mandatory Philippine National Standard (PNS) and with testing constraints; and
2. With Philippine Standard (PS) License.

Henceforth, for products not included in the List of Products Under Mandatory Certification, said certification will no longer be issued.

We look forward to a productive collaboration with your agency.

Sincerely,

alcaochan
ATTY. ANN CLAIRE C. CABOCHAN
 Officer-in-Charge, CPG

Attachment: a/s



BPS MEMORANDUM CIRCULAR NO. 16-01
Series of 2016

For : ALL DTI REGIONAL/PROVINCIAL DIRECTORS,
FAIR TRADE ENFORCEMENT BUREAU,
MANUFACTURERS, IMPORTERS, DEALERS,
WHOLESALEERS, RETAILERS, AND OTHERS
CONCERNED

From : **ATTY. ANN CLAIRE C. CABOCHAN** *accabochan*
Director-in-Charge

Date : 01 July 2016

Subject : **LIST OF PRODUCTS UNDER MANDATORY
CERTIFICATION**

For the effective implementation and enforcement of products under the BPS Product Certification Schemes, attached is the updated List of Products Under Mandatory Certification as of 01 July 2016 with specific product coverage and is classified into three (3) groups namely: Electrical & Electronic Products, Mechanical/Building & Construction Materials, and Chemical & Other Consumer Products.

For your information and guidance.

Attachment: a/s

Enabling Business. Empowering Consumers



**List of Products
Under Mandatory Certification
As of 01 July 2016**

| No. | Product | Philippine National Standard (PNS) No. | Title of PNS | Specific product coverage |
|---|-----------------------|--|--|--|
| ELECTRICAL & ELECTRONIC PRODUCTS | | | | |
| HOUSEHOLD APPLIANCES | | | | |
| 1 | Electric fans | PNS IEC 60335-2-80:2000 IEC published 1997 | Safety of household and similar electrical appliances Part 2 : Particular requirements for fans | Manual or remote-controlled household electric fans 300 watts and below with rated voltage being not more than 250V a.c., single phase, 60Hz, plastic/metal blades. Ceiling/orbit/table/desk/box/tower/pedestal/stand/floor/partition/exhaust/duct fans |
| 2 | Flat irons | PNS 254-1:1994 Amd. 01:2000 (IEC 60335-2-3:1993 Amd. 01:1999) | Safety of household and similar electrical appliances - Part 2 : Particular requirements for electric irons | Portable household electric flat iron |
| 3 | Electric blenders | PNS 1244:1994 (IEC 335-2-14:1984) | Safety of household and similar electrical appliances - Part 2 : Particular requirements for kitchen machines | Portable household electric blender |
| 4 | Microwave ovens | PNS IEC 335-2-25:2000 IEC published 1996 | Safety of household and similar electrical appliances Part 2 : Particular requirements for microwave ovens | Portable household electric microwave ovens rated up to 250V a.c. with basic functions only |
| 5 | Electric rice cookers | PNS 255:1996 (IEC 335-2-15:1995) | Safety of household and similar electrical appliances Part 2 : Particular requirements for appliances for heating liquids | Portable household electric rice cookers & rice warmers |
| 6 | Electric airpots | PNS 255:1996 (IEC 335-2-15:1995) | Safety of household and similar electrical appliances Part 2 : Particular requirements for appliances for heating liquids | Portable household electric airpots |
| 7 | Electric coffeemakers | PNS 255:1996 (IEC 335-2-15:1995) | Safety of household and similar electrical appliances Part 2 : Particular requirements for appliances for heating liquids | Portable household coffeemakers |

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Membership:
• International Organization for Standardization (ISO)
• Enquiry Point of WTO Technical Barriers to Trade (WTO-TBT)



| No. | Product | Philippine National Standard (PNS) No. | Title of PNS | Specific product coverage |
|-----|---------------------|---|---|---|
| 8 | Television sets | PNS IEC 60065:2007 | Audio, video and similar electronic apparatus - Safety requirements | CRT TV, colored and black & white, 110v - 250 V a.c.; LCD Panel TV (with CCFL or LED backlight) up to 45 inches LCD panel, up to 250V a.c. (directly to the mains) |
| 9 | CD/VCD/DVD players | PNS IEC 60065:2007 | Audio, video and similar electronic apparatus - Safety requirements | stand-alone CD/VCD/DVD players 110 V - 250 V a.c. |
| 10 | Electric toasters | PNS 272:1996 (IEC 335-2-9:1993) | Safety of household and similar electrical appliances Part 2 : Particular requirements for toasters, grills, roasters and similar appliances | Portable household electric toasters |
| 11 | Electric stoves | PNS 272:1996 (IEC 335-2-9:1993) | Safety of household and similar electrical appliances Part 2 : Particular requirements for toasters, grills, roasters and similar appliances | Portable household electric stoves & hot plates |
| 12 | Electric hot plates | PNS 272:1996 (IEC 335-2-9:1993) | Safety of household and similar electrical appliances Part 2 : Particular requirements for toasters, grills, roasters and similar appliances | Portable household electric hot plates |
| 13 | Washing machines | PNS IEC 60335-2-7:2000 IEC published 1998 | Safety of household and similar electrical appliances Part 2-7 : Particular requirements for washing machines | Single-washer & washer w/ spin extraction, semi-automatic controlled & horizontal drum orientation rated up to 250V a.c. |
| 14 | Refrigerators | PNS IEC 60335-2-24:2001 Amd.01:2003 (IEC 335-2-24:2000) | Safety of household and similar electrical appliances Part 2-24 : Particular requirements for refrigerating appliances and ice-makers | 142 liters to 227 liters (5 to 8 cu. ft.) storage capacity, single-door and two-door inclusive |
| | | PNS 396-2:1997 Amd. 01:2000 | Household appliances - Energy efficiency factor (EEF) and labeling requirements - Part 2 : Refrigerators and freezers | |
| 15 | Air conditioners | PNS 396-1:1998 | Household appliances - Energy efficiency ratio (EER) and labeling requirements - Part 1 : Non-ducted airconditioners | Window & Split-type (wall & floor mounted) up to 36,000 KJ/hr cooling capacity |

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| No. | Product | Philippine National Standard (PNS) No. | Title of PNS | Specific product coverage |
|-----------------------------------|---------------------------------------|--|--|---|
| LAMPS AND RELATED PRODUCTS | | | | |
| 16 | Ballasts (Pre-heat/ magnetic) | PNS IEC 61347-1:2002 Amd. 1:2006 PNS IEC 61347-2- 8:2002 | Lamp controlgear – Part 1: General and safety requirements Lamp controlgear - Part 2-8: Particular requirements for ballasts for fluorescent lamps | Ballasts for tubular fluorescent lamps specifically with ratings from 18W to 40W for T12, T10, T9, and T8 halophosphate fluorescent lamps with G13 cap, 50/60Hz |
| 17 | Ballasts (Electronic) | PNS IEC 61347-1:2002 Amd. 1:2006 PNS IEC 61347-2- 3:2002 with Amd. 1:2006 | Lamp controlgear – Part 1: General and safety requirements Lamp controlgear - Part 2-3: Particular requirements for A.C. supplied electronic ballasts for fluorescent lamps for general lighting service | a.c. supplied electronic ballasts up to 1000 V at 50 Hz or 60 Hz with ratings from 10W to 40W for T12, T10, T9, T8 & T5 halophosphate & triphosphate with G13 & G5 caps |
| 18 | CFL/Self- ballasted lamps | PNS IEC 968:2006 (IEC published 1988) | Self-ballasted lamps for general lighting services – Safety requirements | CFL Watts: 2W to 60W Voltage: up to 250V a.c. Edison screw base E14 & E27 |
| 19 | Christmas lights/ Lighting chains | PNS 189:2000 | Lighting sets using miniature and sub-miniature lamps for decorative purposes for indoor use – Specification | All types except using GLS type bulbs |
| 20 | Double-capped fluorescent lamps | PNS IEC 61195:2006 (IEC published 1999) | Double-capped fluorescent lamps – Safety specifications | Linear fluorescent lamps for T12, T8, & T5 halophosphate & triphosphate lamps with G13 & G5 caps, from 10W up to 65W, 220-230V a.c., 50/60Hz |
| 21 | Single-capped fluorescent lamps | PNS IEC 61199:2006 (IEC published 1999) | Single-capped fluorescent lamps – safety requirements | Circular fluorescent lamps |

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|-----------------------|--|--|--|--|
| 22 | Incandescent lamps (Bulbs) | PNS 38-1:1995 (IEC 432-1:1993 Amd. 01:1995) | Safety specifications for incandescent lamps - Part 1 : Tungsten filament lamps for domestic and similar general lighting purposes | Rated wattage: 200W & below; Rated voltage: 50V to 250V; Bulb shape: A, B, C, G, M, P, PS or other shapes where the lamps are intended to serve the same purpose as lamps with the foregoing bulb shapes; Bulbs with all kinds of finishes; Caps E14 and E27 |
| 23 | Edison screw lamp holders | PNS 80:1997 (IEC 238:1996) | Edison screw lampholder - Specification | E5, E10, E14, E27 & E40 caps Switched holders (≤V _{rms} 250) |
| 24 | Lamp holders for tubular fluorescent lamps and starter holders | PNS 42:1997 (IEC 400:1996) | Lamp holders for tubular fluorescent lamps and starter holders - Specification | For starter based on IEC 155 For rated voltage up to 1000 V _{rms} For use w/ G type BI-PIN cap (i.e., G13, G10q) |
| 25 | Lamp starters | PNS 45:1997 Amd. 01:1997 (IEC 155:1993/ Amd. 01:1995) | Glow-starters for fluorescent lamps | For use with pre-heat type fluorescent lamps |
| WIRING DEVICES | | | | |
| 26 | Circuit breakers | PNS 519:1991 | Circuit breakers - Moulded case-Specification | 100 Amperes & below 1P, 2P & 3P |
| | | PNS 1573-2:1997 (IEC 947-2:1995) | Low voltage switchgear and controlgear - Part 2 : Circuit-breakers | |
| 27 | Fuses | PNS 13:1983 (PNS 13:1999) (UL 198B:1995) | Class H Fuses - Specification | Household fuse up to 100 Amperes |
| 28 | Fuseholders | PNS 56:1996 (ANSI/UL 512:1992) | Fuseholders - Specification | Household fuseholders |
| 29 | PVC electrical tapes | PNS 79:1992 | Pressure sensitive adhesive polyvinyl chloride (PVC) tapes for electrical insulation - Specification | For general purposes and use for not more than 600 Volts |

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| No. | Product | Philippine National Standard (PNS) No. | Title of PNS | Specific product coverage |
|-----|---------------------|---|--|---|
| 30 | Plugs | PNS 1486-1:1996 (IEC 884-1:1994) | Plugs and socket-outlets for household and similar purposes Part 1 : General requirements | Plugs for a.c. only, with and without earthing contact, with rated voltage above 50V but not exceeding 440V and a rated current not exceeding 32A, intended for household and similar purposes, either indoors or outdoors |
| | | PNS 1572:1997 (IEC 83:1975) | Plugs and socket outlets for domestic and similar general use standards | |
| 31 | Socket-outlets | PNS 1486-1:1996 (IEC 884-1:1994) | Plugs and socket-outlets for household and similar purposes Part 1 : General requirements | Socket-outlets for a.c. only, with and without earthing contact, with rated voltage above 50V but not exceeding 440V and a rated current not exceeding 32A, intended for household and similar purposes, either indoors or outdoors |
| | | PNS 1572:1997 (IEC 83:1975) | Plugs and socket outlets for domestic and similar general use standards | |
| 32 | Extension cord sets | PNS 1486-1:1996 (IEC 884-1:1994) | Plugs and socket-outlets for household and similar purposes Part 1 : General requirements | Household extension cord sets |
| | | PNS 1572:1997 (IEC 83:1975) | Plugs and socket outlets for domestic and similar general use standards | |
| 33 | Snap switches | PNS 1485-1:1996 Amd. 01 & 02:1996 (IEC 669-1:1993/ Amd. 01:1994 Amd. 02:1995) | Switches for household and similar fixed-electrical installations Part 1 : General requirements | AC marking only Household snap switch for general lighting purposes |
| | | PNS 57:1996 (UL 20:1995) | Snap switches for general use – Specification | Household switch with ac/dc marking. For household snap switch general lighting |
| 34 | Knife switches | PNS 118:1988 | Knife switches – Specification | Household knife switches |

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|---|---|---|--|---|
| WIRES AND CABLES | | | | |
| 35 | PVC insulated flexible cords | PNS 163:1994 | Electrical products - Polyvinyl chloride insulated flexible cords - Specification | For indoor use Rated up to 300V |
| 36 | Thermoplastic electric wires and cables | PNS 35-1:2004 | Thermoplastic Electric Wires and Cables use up to 600 Volts | TW, THW & THHN/THWN 2.0mm ² to 500mm ² 1.6mm to 3.2mm |
| MECHANICAL/BUILDING & CONSTRUCTION MATERIALS | | | | |
| MECHANICAL/BUILDING & CONSTRUCTION MATERIALS | | | | |
| 37 | BI/GI steel pipes | PNS 26:1992 | Steel - Black and hot-dipped zinc coated (galvanized) longitudinally welded steel pipes (for ordinary use) - Specification | Black Iron (BI) and hot-dipped zinc coated (Galvanized Iron-GI) |
| 38 | Blended hydraulic cement with Pozzolan | PNS 63: 2006 Amd. 1:2010 | Blended Hydraulic Cement with Pozzolan - Specification | Blended Hydraulic Cement with Pozzolan |
| 39 | Portland cement | PNS 07:2005 Amd. 1:2008; Amd. 2:2010 | Portland cement - Specification | Portland Cement |
| 40 | Deformed steel bars | PNS 49:2002 | Steel bars for concrete reinforcement - Specification | Grade 230/275/415 Weldable & Non-weldable |
| 41 | Equal-Leg steel angle bars | PNS 657:2008 | Hot-Rolled Steel Sections - Equal-Leg Angles - Specifications | Hot-rolled equal-leg steel angle bars |
| 42 | Pipes (PB) | PNS 152:1987 | Polybutylene (PB) pipes for potable water supply - Specification | PB pipes SDR 9/11/13.5/17 |
| 43 | Pipes (PE) for water supply | PNS ISO 4427:2002 Amd. 01:2002 | Polyethylene (PE) pipes for potable water supply - Specification | PE 100/80/63/60/32 SDR 9/11/13.6/17 |
| 44 | Pipes (uPVC) | PNS 65:1993 | Unplasticized polyvinyl chloride (uPVC) pipes for potable water supply - Specification | uPVC pipes series 5/7/8 & 10 |
| 45 | uPVC rigid electrical conduit | PNS 14:1983 Amd. 01:1987 | Unplasticized polyvinyl chloride (uPVC) electrical conduit - Specification | Thick wall and thin wall pipes |
| 46 | PVC-U pipes for drain waste & vent | PNS 1950:2003 Corrigendum 01:2003 | Plastic piping systems for soil and waste discharge (Low & High temp.) inside buildings - Unplasticized Polyvinyl Chloride (PVC-U) | PVC pipes for sanitary application |
| 47 | Rerolled steel bars | PNS 211:2002 | Rerolled steel bars for concrete reinforcement - Specification | 6mm to 8mm diameter grade 170 rerolled steel bars |

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|--|---------------------------------------|--|--|--|
| 48 | Sanitary wares | PNS 156:2000 | Sanitary wares – Specification | Urinals, Bidet, Water Closets, and Lavatories |
| 49 | Steel wires (low carbon) | PNS 113:2005 | Low carbon steel wires – plain, annealed & galvanized – Specification | Steel wires |
| 50 | Wire nails | PNS 136:2000 | Steel - Wire nails – Specification | Finishing nails |
| CHEMICAL & OTHER CONSUMER PRODUCTS | | | | |
| CHEMICALS & OTHER CONSUMER PRODUCTS | | | | |
| 51 | Brake fluid | PNS 239/MVSS 116:1988 DOT 3,4,5 | Motor vehicle brake fluids - Passenger cars, multi-purpose passenger vehicles, trucks, buses and motorcycles and brake fluid containers - Specification Specification for motor vehicle brake fluid | DOT 3 DOT4 |
| 52 | Fire extinguishers (Dry chemical) | PNS 15-1:1989 | Portable fire extinguishers – Specification Part 1 : Dry chemical | MAP, MAP + Ammonium Sulfate, Sodium Bicarbonate, Potassium Bicarbonate, Urea-Potassium Bicarbonate |
| 53 | Fire extinguishers (Carbon dioxide) | PNS 15-3:1991 | Portable fire extinguishers – Specification Part 3 : Carbon dioxide | Carbon dioxide |
| 54 | Fire extinguishers (AFFF) | PNS 15-4:1991 | Portable fire extinguishers – Specification Part 4 : Foam | AFFF, Alcohol-resistant foam, fluoroprotein-foam |
| 55 | Fire extinguishers (Halon substitute) | PNS 15-5:1996 Amd. 01:1997 | Clean extinguishing agent – Part 5 : Halon substitute portable fire extinguishers – Specification | Halon substitute (as listed in USEPA SNAP LIST) |
| 56 | Fireworks | PNS 1220-2:1994 | Fireworks – Part 2: Specification | Fireworks |
| 57 | Helmets and their visors | PNS/UN ECE 22:2007 | Uniform provisions concerning the approval of protective helmets and their visors for drivers and passengers of motor cycles and mopeds | Helmets and their visors for drivers and passengers of motor cycles and mopeds |
| 58 | Inner tubes for tires | PNS 34:2000 | Rubber inner tubes for pneumatic tires – Specification | Motorcycle, passenger, light truck, truck/bus rubber inner tubes |

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| No. | Product | Philippine National Standard (PNS) No. | Title of PNS | Specific product coverage |
|-----|----------------------------------|---|---|---|
| 59 | Lead-Acid Batteries | PNS 06:1987 | Lead Acid storage batteries - Specification | Automotive & motorcycle batteries |
| 60 | Lighters | PNS 47:1998 (ISO 9994:1995) | Lighters - Safety specification | Lighters for cigars and cigarettes |
| 61 | LPG cylinders for household use | PNS 03-1:2000 | Steel cylinders for liquefied petroleum gas (LPG) - Part 1 : Specification | LPG steel cylinders from 1 liter to 150 liters water capacity |
| 62 | LPG cylinders requalification | PNS 03-2:2000 | Steel cylinders for liquefied petroleum gas (LPG) - Part 2 : Method of requalification | Accreditation to ISO/IEC 17025 as per requirement of PNS 03-2:2000 |
| 63 | LPG cylinders repair | PNS 03-3:2000 | Steel cylinders for liquefied petroleum gas (LPG) - Part 3 : Requirements for repair | Repair of LPG steel cylinders from 1 liter to 150 liters water capacity |
| 64 | LPG cylinders for motor vehicles | PNS 04:1983 | Gas cylinders for automotive - LPG for use in motor vehicles - Steel cylinders - Specifications | LPG cylinders for motor vehicles |
| 65 | LPG system Code of practice | PNS 05:1983 | The use of Liquefied Petroleum Gas (LPG) system in internal combustion engine - Code of practice | Code of practice |
| 66 | LPG/CNG retrofit systems | PNS/UN ECE 115:2006 | Uniform provisions concerning the approval of: (a) Specific LPG (Liquified Petroleum Gases) and (b) CNG (Compressed Natural Gas) retrofit systems to be installed in motor vehicles for the use of LPG or CNG, respectively, in their propulsion system | Specific LPG and CNG retrofit systems to be installed in motor vehicles for the use of LPG or CNG |
| 67 | Matches | PNS 09-1:2000 | Safety matches - Part 1 : Safety matches for commercial purposes - Specification | Safety matches for commercial purposes |
| 68 | Medical grade oxygen | PNS 103:1987 | Medical grade oxygen in cylinders - Specification | Medical grade oxygen |
| 69 | Monobloc chair/stools | PNS 1478:1998 | Furniture - Monobloc chair, monobloc stool and plastic table - Specification | Chairs/stools only |
| 70 | Safety belts (Seat belts) | PNS 1892:2000 Amd. 01:2002 | Road vehicles - Safety-belts and restraint systems - Specification | 2-point and 3-point manual/automatic safety belts |
| 71 | Safety glass for automotive | PNS 130:1988 Amd. 01:1998 | Safety glass for automotive application - Specification | Tempered/laminated (Windshield, Backlight, Sidelight) |
| 72 | Tires for automotive vehicles | PNS 25:1994 | Pneumatic tires - Specification | Passenger, light truck, truck/bus tires |

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List of Products Under Mandatory Certification

- Electrical Products
- Mechanical/Building & Construction Materials
- Chemical & Other Consumer Products



Electrical Products

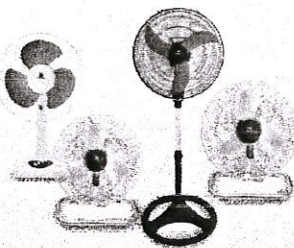
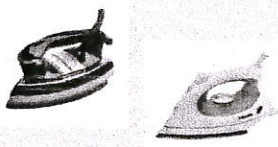
- Household Appliances
- Lamps and Related Products
- Wiring Devices
- Wires and Cables



CMC 112-2014

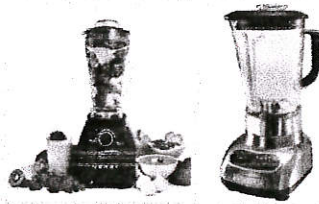
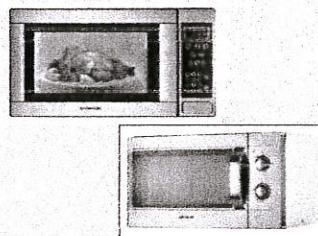
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Mabuhay! **Electrical Products – Household Appliances**

| Product | Image | Specific product coverage |
|---------------|---|--|
| Electric fans |  | Plastic/Metal blades 300 Watts & below. Stand/Desk/Floor/ Ceiling/Wall/ Exhaust/Duct |
| Flat Irons |  | Portable household electric flat iron |

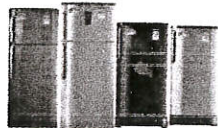
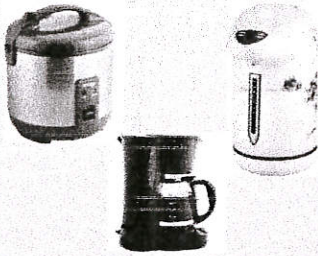
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DEPARTMENT OF TRADE & INDUSTRY
PHILIPPINES 15

Mabuhay! **Electrical Products – Household Appliances**

| Product | Image | Specific product coverage |
|--|---|---------------------------------------|
| Kitchen machines (i.e., Blender, Juicer, egg beaters etc.) |  | Portable household electric blender |
| Microwave ovens |  | Portable household electric microwave |

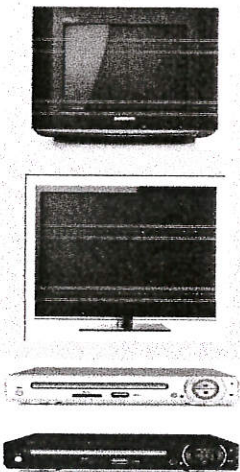
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DEPARTMENT OF TRADE & INDUSTRY
PHILIPPINES 16

Mabuhay! **Electrical Products – Household Appliances**

| Product | Image | Specific product coverage |
|---|---|---|
| Refrigerators |  | Storage volume: 142 liters to 227 liters (5 to 8 cu. ft.) only |
| Rice Cookers, Airpot, and Coffee makers |  | Portable household electric rice cookers, airpots & coffeemakers |

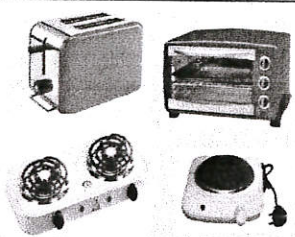
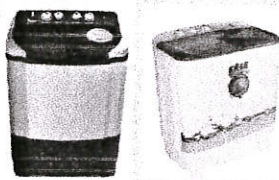
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PHILIPPINES 17

Mabuhay! **Electrical Products – Household Appliances**

| Product | Image | Specific product coverage |
|-----------------------|---|---|
| Audio, Video Products |  | <ul style="list-style-type: none"> • Television Sets: <ol style="list-style-type: none"> 1. <u>CRT type</u> 14 to 29 inches, 110V – 250V ac; 2. <u>LCD Panel TV, (with CCFL or LED Backlight)</u> Up to 45 inches, Up to 250V ac (directly to the mains); • CD/VCD/DVD Players (stand alone) |

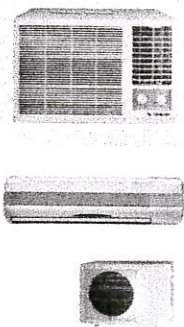
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Mabuhay! **Electrical Products – Household Appliances**

| Product | Image | Specific product coverage |
|--|---|--|
| Toasters, Grills, Roasters, and similar appliances |  | Portable household electric toasters, electric stoves, and hot plates |
| Washing Machines |  | Single-washer & washer w/ spin extraction, semi-automatic controlled & horizontal drum orientation rated up to 250V a.c. |

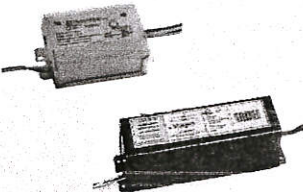
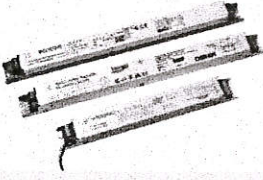
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Mabuhay! **Electrical Products – Household Appliances**

| Product | Image | Specific product coverage |
|------------------|---|---|
| Air Conditioners |  | Window-type and split-type (wall & floor mounted) Up to 36,000 kJ/hr cooling capacity |

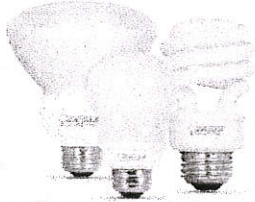
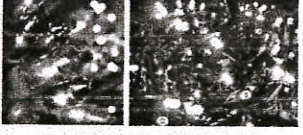
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Mabuhay! Electrical Products – Lamps & Related Products

| Product | Image | Specific product coverage |
|-------------------------------------|---|---|
| Ballast (Pre-heat / Magnetic) |  | Ballasts with input voltage up to 1000V, 18W to 40W for use on T12, T10, T9 & T8 halophosphate lamps with G13 cap, 50/60 Hz |
| Ballast (Electronic) |  | A.C. supplied electronic ballasts up to 1000 V at 50 Hz or 60 Hz with ratings from 10W to 40W for T12, T10, T9, T8 & T5 halophosphate & triphosphate with G13 & G5 caps |


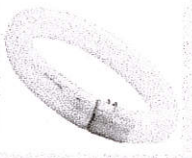
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Mabuhay! Electrical Products – Lamps & Related Products

| Product | Image | Specific product coverage |
|------------------------------------|---|---|
| CFL / Self-ballasted lamps |  | Watts: 60W & below Voltage: up to 250V ac Edison screw based E14 & E27 |
| Christmas lights / Lighting chains |  | All types except using GLS type bulbs |

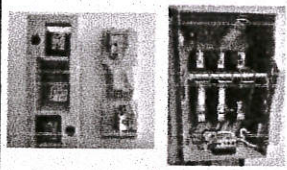
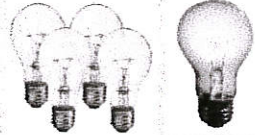
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Mabuhay! **Electrical Products – Lamps & Related Products**


| Product | Image | Specific product coverage |
|-----------------------------------|---|---|
| Fluorescent lamps (Double-capped) |  | Linear fluorescent lamps for T12, T8, & T5 halophosphate & triphosphate lamps with G13 & G5 caps, from 10W up to 65W, 220-230V AC |
| Fluorescent lamps (Single-capped) |  | Circular fluorescent lamps |


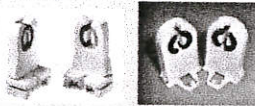
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Mabuhay! **Electrical Products – Lamps & Related Products**


| Product | Image | Specific product coverage |
|----------------------------|---|---|
| Fuseholders |  | Household fuseholders |
| Incandescent lamps (bulbs) |  | Watts: 200W & below Rated voltage: 50 to 250V Bulb shape: A, PS, M, B, C, P, G; Cap: E14, E17, E26, E27, E40 & E45 |

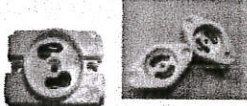

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 **Electrical Products – Lamps & Related Products**

| Product | Image | Specific product coverage |
|-----------------------------|---|--|
| Lamp holders (Edison screw) |  | E5, E10, E14, E27 & E40 caps Switched holders ($\leq 250 V_{rms}$) |
| Lamp holders |  | For starter based on IEC 155 For rated voltage up to $1000 V_{rms}$ For use w/ G type BI-PIN cap (i.e., G13, G10q) |


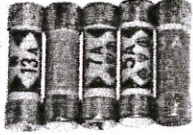
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 **Electrical Products – Lamps & Related Products**

| Product | Image | Specific product coverage |
|-----------------|---|--|
| Starter holders |  | For starter based on IEC 155 For rated voltage up to $1000 V_{rms}$ For use w/ G type BI-PIN cap (i.e., G13, G10q) |
| Lamp starters |  | For use with pre-heat type fluorescent lamps |

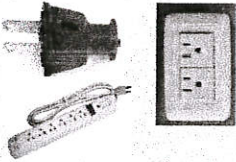

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Mabuhay! **Electrical Products – Wiring Devices**

| Product | Image | Specific product coverage |
|------------------|---|-------------------------------------|
| Circuit breakers |  | 100 Amperes & below 1P, 2P & 3P |
| Fuses |  | Household fuse up to 100 Amperes |

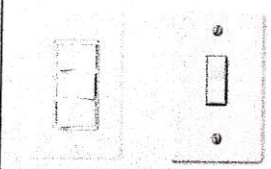
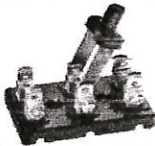
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Mabuhay! **Electrical Products – Wiring Devices**

| Product | Image | Specific product coverage |
|---|---|--|
| Plugs, Socket-outlets and Extension cords |  | Household plugs and outlets |
| PVC Electrical Tapes |  | For general purposes and use for not more than 600 Volts |

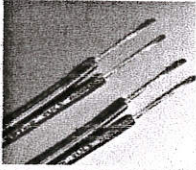
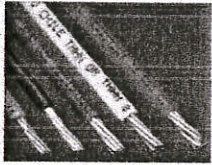
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Mabuhay! **Electrical Products – Wiring Devices**

| Product | Image | Specific product coverage |
|------------------|---|--|
| Switches (Snap) |  | Household switch with ac/dc marking. For household snap switch general lighting purposes |
| Switches (Knife) |  | Household knife switches |

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Mabuhay! **Electrical Products – Wires and Cables**

| Product | Image | Specific product coverage |
|----------------------|---|---|
| Flexible Cords (PVC) |  | For indoor use Rated up to 300V |
| Wires and cables |  | TW, THW & THHN/THWN 2.0mm ² to 500mm ² 1.6mm to 3.2mm |

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Mechanical/Building & Construction Materials



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Mechanical/Building & Construction Materials

| Product | Image | Specific product coverage |
|-------------------|-------|---|
| BI/GI Steel pipes | | Black Iron (BI) and hot-dipped zinc coated (Galvanized Iron-GI) |
| Cement | | Blended Hydraulic Cement with Pozzolan & Portland Cement |



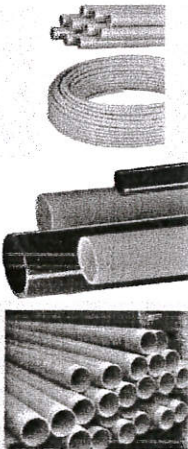
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Mabuhay! Mechanical/Building & Construction Materials

| Product | Image | Specific product coverage |
|----------------------------|--|--|
| Deformed Steel bars |  | Grade 230/275/415 Weldable & Non-weldable |
| Equal-Leg Steel Angle Bars |  Equal-leg Angle bar | Hot-rolled equal-leg steel angle bars |




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Mabuhay! Mechanical/Building & Construction Materials

| Product | Image | Specific product coverage |
|--------------------------------|---|--|
| Pipes (PB) |  | PB pipes SDR 9/11/13.5/17 |
| Pipes (PE) for water supply | | PE 100/80/63/60/32 SDR 9/11/13.6/17 |
| Pipes (uPVC) | | uPVC pipes series 5/7/8 & 10 |



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Mabuhay! **Mechanical/Building & Construction Materials**


| Product | Image | Specific product coverage |
|------------------------------------|---|---|
| PVC-U Pipes for drain waste & vent |  | PVC pipes for sanitary application |
| Rerolled Steel bars |  | 6mm to 8mm diameter grade 170 rerolled steel bars |
| Sanitary wares |  | Urinals, Bidet, Water Closets, and Lavatories |

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Mabuhay! **Mechanical/Building & Construction Materials**

| Product | Image | Specific product coverage |
|--------------------------|---|---------------------------|
| Steel wires (low carbon) |  | Steel wires |
| Wire nails |  | Finishing nails |


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Chemical & Other Consumer Products




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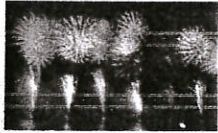

Chemical & Other Consumer Products

| Product | Image | Specific product coverage |
|--------------------|---|--|
| Brake fluid |  | DOT 3 DOT4 |
| Fire extinguishers |  | <ul style="list-style-type: none"> •MAP, MAP + Ammonium Sulfate, Sodium Bicarbonate, Potassium Bicarbonate, Urea- Potassium Bicarbonate; •Carbon dioxide; •AFFF (Foam); •Halon substitute (as listed in USEPA SNAP LIST) |



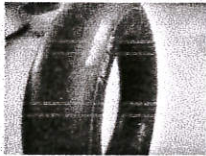

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Mabuhay! **Chemical & Other Consumer Products**

| Product | Image | Specific product coverage |
|--------------------------|--|--|
| Fireworks |  | Fireworks |
| Helmets and their visors |  <small>Mirror Shield Under Daylight</small> | Helmets and their visors for drivers and passengers of motor cycles and mopeds |



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Mabuhay! **Chemical & Other Consumer Products**

| Product | Image | Specific product coverage |
|-----------------------|---|--|
| Inner tubes for tires |  | Motorcycle, Passenger, light truck, truck and bus rubber inner tubes |
| Lead-Acid Batteries |  | Automotive & Motorcycle batteries |

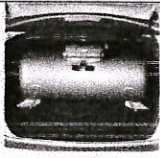

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Mabuhay! **Chemical & Other Consumer Products**

| Product | Image | Specific product coverage |
|---------------------------------|---|---|
| Lighters |  | Lighters for cigars and cigarettes |
| LPG cylinders for household use |  | LPG steel cylinders from 1 liter to 150 liters water capacity |
| LPG cylinders repair | | Repair of LPG steel cylinders from 1 liter to 150 liters water capacity |


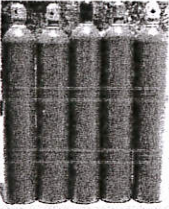
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Mabuhay! **Chemical & Other Consumer Products**

| Product | Image | Specific product coverage |
|----------------------------------|---|---|
| LPG cylinders for motor vehicles |  | LPG cylinders for motor vehicles |
| LPG/CNG retrofit systems |  | Specific LPG and CNG retrofit systems to be installed in motor vehicles for the use of LPG or CNG |



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Mabuhay! **Chemical & Other Consumer Products**

| Product | Image | Specific product coverage |
|----------------------|---|--|
| Matches |  | Safety matches for commercial purposes |
| Medical grade oxygen |  | Medical grade oxygen |

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Mabuhay! **Chemical & Other Consumer Products**

| Product | Image | Specific product coverage |
|---------------------------|--|---|
| Monobloc chair/stools |  | Chairs/stools only |
| Safety belts (Seat belts) |  <small>EE.601 Automatic two-point car safety belt</small> | 2-point and 3-point manual/automatic safety belts |

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Chemical & Other Consumer Products

| Product | Image | Specific product coverage |
|-------------------------------|---|---|
| Safety glass for automotive |  | Tempered/laminated (Windshield, Backlights, Sidelights) |
| Tires for automotive vehicles |  | Passenger, light truck, truck and bus tires |

