

Current, Selected, and "Neither" Products in Machinery & Equipment and Precision Instruments

Table 12: Transportation Equipment

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
Motor vehicles and parts										
8714	Parts and accessories of motorcycles, bicycles or carriages	1	2.19	1.76	0.00	0.59	473.6	6%	16,592	6%
8709	Works trucks, self-propelled	1	1.30	2.41	0.00	0.59	20.7	21%	1,038	5%
8708	Parts and accessories of the motor vehicles	2	0.19	2.68	0.36	0.62	808.3	16%	279,322	6%
8703	Cars	2	0.02	2.20	0.35	0.65	243.6	0%	645,181	6%
8701	Tractors	2	0.03	2.51	0.37	0.67	21.3	14%	51,631	7%
8707	Vehicle Bodies	2	0.03	2.57	0.34	0.66	4.3	14%	10,143	8%
8702	Motor vehicles for the transport of > 10 persons	3	0.30	0.51	0.14	0.65	73.4	25%	15,961	6%
8716	Trailers and semi-trailers	3	0.15	1.62	0.16	0.62	49.7	3%	21,993	8%
8704	Motor vehicles for transporting goods	3	0.01	1.28	0.17	0.63	23.8	9%	126,383	6%

8712	Bicycles	3	0.08	0.58	0.09	0.67	8.6	1%	8,548	8%
8705	Special purpose motor vehicles	3	0.04	1.44	0.22	0.68	8.0	8%	13,997	8%
8706	Vehicle chassis fitted with engines	3	0.10	2.52	0.31	0.75	5.7	12%	3,598	2%
8711	Motorcycles	3	0.01	2.22	0.28	0.76	3.7	-7%	18,975	6%
8713	Carriages for disabled persons	3	0.05	2.28	0.30	0.74	0.8	7%	1,194	8%
8715	Baby carriages (inc strollers) and parts thereof	3	0.01	2.04	0.21	0.73	0.5	5%	2,142	7%
8710	Tanks and other armored fighting vehicles	3	0.01	1.01	0.16	0.65	0.2	2%	1,722	0%
Air and water transport vehicles										
8904	Tugs and pusher craft	1	3.52	- 1.90	0.00	0.54	167.8	11%	3,261	12%
8803	Parts of goods of other aircraft	2	0.45	2.58	0.40	0.71	466.2	11%	67,911	6%
8802	Aircraft, spacecraft & launch vehicles	3	0.08	1.60	0.24	0.81	157.6	-8%	134,828	6%
8901	Cruise ships and similar vessels for the transport of persons	3	0.13	1.35	0.10	0.68	100.1	15%	53,640	4%
8905	Floating or submersible drilling platforms	3	0.19	- 0.30	0.10	0.67	45.2	-12%	18,059	10%
8903	Yachts	3	0.28	1.91	0.23	0.68	40.2	13%	10,789	7%
8906	Other vessels,	3	0.32	1.36	0.15	0.72	21.2	36%	4,383	6%

	including warships and lifeboats other than row boats									
8805	Aircraft launching gear	3	0.21	2.56	0.28	0.75	4.7	26%	1,455	7%
8908	Vessels and other floating structures for scrapping	3	0.11	0.23	0.09	0.65	2.6	-3%	1,758	12%
8907	Other floating structures (for example, rafts, tanks, buoys and beacons)	3	0.05	0.84	0.13	0.66	0.6	-7%	876	6%
8801	Balloons & dirigibles, gliders etc	3	0.30	1.82	0.24	0.68	0.2	-3%	43	-2%
8804	Parachutes	3	0.01	1.02	0.18	0.63	0.1	-2%	251	6%
8902	Fishing vessels	3	0.00	-0.83	-0.04	0.69	-	0%	850	-1%
Railway equipment										
8609	Containers for carriage by one or more modes of transport	1	0.65	0.55	0.00	0.56	37.7	-4%	3,854	7%
8603	Self-propelled railway or tramway coaches, vans and trucks	2	0.07	2.39	0.39	0.72	7.5	35%	6,842	12%
8608	Railway or tramway track fixtures and fittings; safety equipment	2	0.44	1.76	0.25	0.65	5.6	19%	831	7%

8607	Parts of railway locomotives	2	0.02	2.21	0.31	0.66	3.3	3%	11,907	9%
8605	Railway passenger coaches	2	0.00	2.36	0.35	0.68	-	-100%	1,147	2%
8606	Railway freight cars, not self-propelled	3	0.00	1.25	0.14	0.70	0.3	30%	5,612	14%
8604	Railway or tramway maintenance or service vehicles	3	0.00	1.22	0.22	0.74	0.1	-25%	967	5%
8602	Other rail locomotives; locomotive tenders	3	0.00	0.45	0.11	0.73	0.0	-2%	1,930	4%
8601	Rail locomotives powered from electricity	3	0.00	1.37	0.23	0.73	-	-100%	1,076	4%

Table 13: Office Machinery

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
8471	Automatic data processing machines	1	2.11	2.23	0.00	0.54	12,325.4	2%	392,811	6%
8473	Parts and accessories for office machines	1	5.35	2.48	0.00	0.51	8,147.4	2%	109,192	0%

8470	Calculating machines, cash registers	1	4.79	2.24	0.00	0.58	294.2	1%	4,487	1%
8472	Other office machines	1	1.14	2.77	0.00	0.60	93.1	5%	5,319	2%
8469	Typewriters other than printing machinery	1	12.71	1.47	0.00	0.58	12.3	10%	65	-13%

Table 14: General Purpose Machinery

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
Heating and cooling equipment										
8415	Air conditioners	1	2.20	2.66	0.00	0.57	1,252.3	4%	36,991	8%
8414	Air or vacuum pumps; ventilating or recycling hoods	1	0.57	2.80	0.00	0.55	601.9	9%	68,980	7%
8419	Machinery, plant or laboratory equipment involving a change of temperature such as heating, cooking, roasting	1	0.69	2.81	0.00	0.58	389.8	18%	37,032	6%
8416	Furnace burners for liquid fuel	1	1.17	2.98	0.00	0.58	44.8	17%	2,464	4%
8413	Pumps for liquids	2	0.12	2.89	0.40	0.65	116.1	13%	61,541	8%
8418	Refrigerators, freezers	3	0.45	1.38	0.09	0.58	256.8	8%	37,755	7%
8417	Industrial or laboratory furnaces and	3	0.23	1.81	0.16	0.61	18.7	6%	5,263	4%

	ovens, including incinerators									
Lifting, moving, & excavating machinery										
8431	Parts for use with hoists and excavation machinery	1	0.59	1.33	0.00	0.53	529.6	14%	59,034	8%
8426	Ships' derricks; cranes	1	0.63	1.11	0.00	0.55	142.1	16%	14,773	8%
8428	Other lifting, handling, loading or unloading machinery (for example, elevators, escalators, conveyors, teleferics)	2	0.36	2.59	0.32	0.61	137.5	5%	24,805	6%
8430	Other moving, excavating, extracting or boring machinery for earth, minerals or ores; pile-drivers; snowplows and snowblowers	2	0.37	1.25	0.27	0.67	93.6	16%	16,563	11%
8424	Mechanical appliances for dispersing liquids or powders; fire extinguishers; spray guns; steam or sand blasting machines	2	0.32	2.85	0.38	0.63	82.9	12%	16,713	7%
8429	Self-propelled bulldozers, excavators and road rollers	2	0.07	1.88	0.37	0.71	59.0	2%	55,437	9%
8425	Pulley tackle and hoists; winches and capstans; jacks	2	0.22	3.10	0.45	0.66	23.3	14%	7,125	8%
8427	Fork-lift trucks	2	0.05	3.44	0.49	0.72	12.6	8%	15,031	7%
Engines										
8412	Other engines and motors	2	0.50	2.32	0.27	0.61	143.5	29%	18,874	11%
8409	Parts suitable for use with spark-ignition engines	2	0.08	2.56	0.31	0.61	83.9	9%	66,539	7%
8407	Spark-ignition reciprocating or rotary internal combustion piston engines	2	0.08	2.85	0.39	0.66	52.2	-2%	42,816	4%
8408	Compression-ignition internal	2	0.04	3.27	0.47	0.66	27.4	14%	49,657	9%

	combustion piston engines										
8402	Steam or other vapor generating boilers	1	0.87	1.85	0.00	0.57	79.5	15%	5,927	6%	
Boilers and turbines											
8411	Turbojets, turbo propellers and other gas turbines	2	0.13	2.46	0.40	0.68	193.1	7%	99,528	7%	
8406	Steam turbines and other vapor turbines	2	0.26	2.87	0.43	0.66	29.0	6%	7,134	6%	
8403	Central heating boilers	2	0.08	2.28	0.29	0.64	8.8	5%	6,926	8%	
8405	Producer gas or water gas generators	2	0.50	2.29	0.30	0.64	7.7	2%	1,002	3%	
8404	Auxiliary plant for use with boilers; condensers for steam or other vapor power units	2	0.22	2.43	0.25	0.60	7.2	5%	2,092	5%	
8410	Hydraulic turbines, water wheels	3	0.12	1.32	0.15	0.66	2.9	23%	1,599	6%	
Machine tools											
8462	Machine tools for working metal by forging; machine tools for working metal by bending, folding, straightening or flattening	1	0.70	2.48	0.00	0.60	113.8	10%	10,937	4%	
8467	Tools for hand working, pneumatic, hydraulic motors	2	0.29	3.21	0.48	0.67	35.0	17%	8,533	6%	
8465	Machine tools for working wood	2	0.28	2.56	0.34	0.68	25.8	4%	6,420	2%	
8459	Machine tools for drilling, boring or milling by removing metal	2	0.20	1.77	0.25	0.64	14.2	8%	5,011	4%	
8460	Machine tools for finishing metal or cermets	2	0.13	3.25	0.42	0.69	10.1	7%	5,450	5%	
8461	Machine tools for planing, shaping, slotting, gear cutting, or sawing	2	0.21	3.33	0.42	0.72	8.9	4%	2,920	5%	
8463	Other machine tools for working metal or cermets, without removal	2	0.24	2.56	0.37	0.69	7.4	2%	2,136	3%	

8464	Machine tools for working stone	2	0.15	2.29	0.31	0.66	5.6	6%	2,540	2%
Other										
8479	Machines and mechanical appliances having individual functions nes	1	1.04	3.33	0.00	0.60	1,194.4	12%	76,174	5%
8482	Ball or roller bearings	1	0.81	2.91	0.00	0.57	393.2	9%	32,115	6%
8481	Appliances for thermostatically controlled valves	2	0.32	3.02	0.38	0.63	394.3	18%	82,074	9%
8483	Transmission shafts	2	0.13	3.10	0.44	0.65	99.7	9%	49,979	8%
8485	Ships or boats propellers and blades	2	0.28	2.59	0.36	0.62	34.6	7%	8,305	6%
8484	Gaskets and similar joints of metal sheeting	2	0.52	3.06	0.44	0.64	28.6	8%	3,719	6%

Table 15: Specific Purpose Machinery

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
Washing and pressing machinery										
8423	Weighing machinery	1	0.90	2.79	0.00	0.58	51.9	20%	3,827	5%
8421	Centrifuges	2	0.48	2.33	0.28	0.60	388.8	13%	53,001	9%
8422	Dishwashing machines; machinery for cleaning or drying containers; machinery for filling, closing, sealing or labeling	2	0.24	2.56	0.34	0.66	95.5	15%	26,126	5%

	containers									
8420	Calendering or other rolling machines	2	0.32	2.61	0.39	0.67	6.0	7%	1,299	3%
8443	Printers and copying machines	1	2.29	3.37	0.00	0.61	2,306.1	38%	67,752	12%
8442	Machinery for making printing components	1	0.83	3.15	0.00	0.62	30.7	17%	2,436	2%
8439	Machinery for making pulp of cellulosic material or for making paper	2	0.13	1.99	0.35	0.72	10.1	4%	5,166	1%
8441	Other machinery for making paper pulp, paper or paperboard	2	0.11	3.13	0.45	0.65	8.5	2%	5,399	2%
8440	Bookbinding machinery	2	0.10	2.42	0.35	0.68	1.9	3%	1,265	1%
8480	Molding boxes for metal foundry	1	0.71	2.78	0.00	0.60	167.0	6%	15,889	5%
Metal working machinery										
8468	Machinery and apparatus for soldering, brazing or welding, whether or not capable of cutting	1	0.69	2.65	0.00	0.57	12.0	5%	1,169	4%
8466	Parts and accessories for metal working machines	2	0.28	2.99	0.41	0.64	71.1	11%	17,567	5%
8456	Machines for the removal of material by laser or other optic means	2	0.20	2.99	0.43	0.68	27.8	5%	9,722	7%
8457	Machining centers for working metal	2	0.09	3.77	0.40	0.72	17.5	12%	13,682	8%

8454	Converters, ladles and casting machines used in metallurgy	2	0.10	2.24	0.30	0.67	5.0	0%	3,262	4%
8458	Lathes for removing metal	2	0.04	3.12	0.42	0.72	4.6	2%	8,110	6%
8455	Metal-rolling mills	2	0.05	2.07	0.30	0.67	4.6	8%	6,512	3%
Agricultural machinery										
8436	Other agricultural, horticultural, forestry equipment; poultry incubators and brooders	1	1.14	2.31	0.00	0.59	117.6	31%	6,671	9%
8435	Presses, crushers used in the manufacture of wine, cider, fruit juices	1	1.02	1.04	0.00	0.61	5.3	12%	340	2%
8433	Harvesting or agricultural machinery	2	0.02	2.47	0.33	0.65	6.8	4%	19,616	7%
8434	Milking and dairy machines	2	0.09	2.08	0.25	0.65	2.8	13%	2,011	5%
8438	Machinery, not specified for the industrial preparation or manufacture of food or drink	3	0.16	1.34	0.18	0.64	29.1	5%	12,152	5%
8437	Machines for cleaning, sorting or grading seed; machinery used in the milling industry or for the working of cereals or dried leguminous vegetables	3	0.42	0.96	0.11	0.65	15.2	11%	2,331	6%
8432	Agricultural, forestry machinery for soil preparation	3	0.06	1.42	0.15	0.63	7.2	10%	7,638	8%

Machinery for working specific materials										
8474	Machinery for working earth, stone, and other mineral substances	1	0.61	1.12	0.00	0.58	181.3	14%	19,405	7%
8475	Machines for assembling electric lamps	1	1.61	3.44	0.00	0.62	59.9	19%	2,553	2%
8478	Machinery for preparing or making up tobacco	1	1.54	1.76	0.00	0.60	34.2	22%	1,433	0%
8477	Machinery for working rubber or plastics	2	0.42	3.33	0.46	0.69	150.3	7%	24,214	4%
8476	Automatic goods-vending machines	2	0.15	2.22	0.32	0.66	3.8	16%	1,785	4%
Machinery used for textiles										
8444	Machines to extrude, cut manmade textile fibres	1	2.88	3.72	0.00	0.60	39.9	32%	895	-1%
8448	Auxiliary machinery for use with knitting and textile machines	2	0.39	2.79	0.40	0.69	26.6	10%	4,560	0%
8452	Sewing machines	2	0.33	1.76	0.29	0.68	20.1	6%	4,509	1%
8450	laundry-type washing machines	2	0.06	2.01	0.25	0.65	13.4	-1%	14,073	7%
8451	Machinery for washing, cleaning or drying fabrics	2	0.10	2.36	0.32	0.66	10.2	1%	6,560	3%
8445	Machines for preparing textile fibers	2	0.11	2.46	0.35	0.76	5.5	2%	3,259	-2%
8447	Knitting machines	2	0.05	1.65	0.31	0.73	1.8	-6%	2,756	-1%
8449	Machinery to manufacture or finish felt or nonwovens	2	0.05	3.11	0.45	0.71	0.7	-4%	820	7%
8446	Looms	2	0.00	2.48	0.35	0.74	0.1	-12%	1,965	-1%

8453	Machinery for preparing, tanning or working hides, skins or leather	3	0.08	1.45	0.23	0.69	0.9	1%	786	-1%
8401	Nuclear reactors and related equipment	3	0.01	2.13	0.25	0.78	0.6	9%	4,843	5%

Table 16: Precision Instruments

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
Medical and scientific appliances										
9018	Medical, surgical, dental or vet instruments	1	0.66	2.34	0.00	0.56	907.4	12%	89,300	9%
9011	Compound optical microscopes	1	1.71	3.27	0.00	0.57	132.9	28%	6,244	14%
9021	Orthopedic appliances, including crutches; splints and other fracture appliances; artificial parts of the body; hearing aids	2	0.41	2.24	0.37	0.76	276.0	21%	45,151	13%
9022	Apparatus based on the use of X-rays or of alpha, beta or gamma radiations	2	0.45	3.58	0.53	0.71	150.4	27%	21,504	8%
9019	Mechano-therapy appliances	2	0.40	2.84	0.39	0.67	51.2	13%	8,483	10%

9012	Microscopes other than optical microscopes	2	0.38	3.60	0.41	0.70	12.9	11%	2,207	9%
9020	Other breathing appliances and gas masks	2	0.24	2.38	0.32	0.70	4.1	1%	1,126	6%
9013	Liquid crystal devices	3	0.12	3.80	0.18	0.67	83.9	7%	45,567	16%
Surveying, measuring, and testing devices										
9030	Oscilloscopes, spectrum analyzers and other instruments and apparatus for measuring or checking electrical quantities	1	8.63	3.23	0.00	0.58	2,771.6	32%	21,797	5%
9032	Automatic regulating or controlling instruments and apparatus	1	1.25	2.87	0.00	0.55	628.7	12%	33,014	7%
9031	Measuring or checking instruments, appliances and machines	1	1.26	2.76	0.00	0.57	624.8	20%	33,734	7%
9026	Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases	1	1.34	3.22	0.00	0.62	378.2	24%	18,612	9%
9015	Surveying, hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances	1	1.46	- 0.06	0.00	0.57	204.0	33%	9,409	8%
9014	Direction finding compasses	1	0.94	2.18	0.00	0.61	105.8	14%	7,458	4%
9028	Gas, liquid or electricity	1	0.97	1.53	0.00	0.58	90.1	16%	6,123	9%

	supply or production meters									
9029	Revolution counters; speedometers and tachometers	1	0.69	2.81	0.00	0.58	69.7	11%	6,766	8%
9033	Parts and accessories for machines, appliances, instruments or apparatus	1	0.79	1.87	0.00	0.54	30.9	10%	2,646	6%
9024	Machines and appliances for testing the hardness, strength, compressibility, elasticity or other mechanical properties of materials	1	0.65	2.87	0.00	0.62	21.7	-6%	2,206	4%
9027	Instruments and apparatus for physical or chemical analysis	2	0.44	2.86	0.41	0.70	219.4	26%	34,559	9%
9025	Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers	2	0.43	2.58	0.39	0.66	27.6	-6%	4,319	7%
9017	Drafting tables and machines	2	0.43	3.24	0.46	0.70	14.7	9%	2,273	3%
9023	Instruments, apparatus and models, designed for demonstrational purposes	2	0.33	2.36	0.30	0.63	13.4	8%	2,648	7%
9016	Balances of a sensitivity of 50 milligram or better	3	0.20	2.54	0.26	0.69	1.0	2%	305	2%
Optical										

9001	Optical fibers	1	1.04	2.66	0.00	0.56	414.2	14%	28,346	12%
9002	Lenses, prisms, mirrors and other optical elements	1	1.60	2.61	0.00	0.53	285.4	20%	12,382	11%
9004	Spectacles, goggles, corrective, protective	2	0.44	2.94	0.40	0.73	49.8	20%	7,923	9%
9003	Frames and mountings for spectacles, goggles or the like	2	0.07	3.05	0.43	0.69	5.4	1%	4,855	4%
9005	Binoculars, monoculars, other optical telescopes, and mountings	2	0.22	2.75	0.37	0.67	4.2	-2%	1,259	3%
Watches and clocks										
9114	Other clock or watch parts	1	6.99	2.62	0.00	0.45	200.5	5%	2,151	2%
9108	Watch movements, complete and assembled	1	1.34	3.19	0.00	0.46	40.3	3%	2,889	4%
9111	Watch cases and parts	1	1.88	2.71	0.00	0.51	31.4	12%	1,292	4%
9109	Clock movements, complete and assembled	1	6.37	2.19	0.00	0.58	7.1	15%	79	-5%
9106	Time of day recording apparatus and apparatus for measuring	2	0.29	2.44	0.35	0.67	1.6	-7%	370	2%
9104	Instrument panel clocks and clocks of a similar type for vehicles, aircraft, spacecraft or vessels	2	0.35	1.50	0.30	0.71	0.7	-11%	132	1%
9102	Wrist watches and pocket watches	3	0.06	2.25	0.25	0.77	21.8	-13%	23,517	6%
9101	Wrist watches and pocket watches in cases of precious	3	0.08	1.18	0.28	0.76	14.0	0%	12,958	10%

	metal									
9110	Complete watch or clock movements	3	0.49	2.49	0.16	0.61	2.4	-10%	341	-3%
9105	Other clocks	3	0.09	2.44	0.24	0.77	2.0	-14%	1,498	1%
9113	Watch straps	3	0.08	1.07	0.16	0.70	1.8	-5%	1,630	4%
9107	Time switches with clock or watch movement	3	0.03	2.10	0.27	0.71	0.2	-15%	537	-1%
9103	Clocks with watch movements	3	0.14	2.14	0.28	0.76	0.2	-5%	109	-2%
9112	Clock cases	3	0.18	2.05	0.26	0.76	0.1	-9%	22	-4%
Photographic and imaging devices										
9006	Photographic cameras	1	3.29	2.12	0.00	0.56	154.3	-7%	3,341	-6%
9007	Cinematographic cameras and projectors	1	2.45	0.57	0.00	0.58	36.1	11%	1,000	5%
9008	Image projectors, other than cinematographic; photographic enlargers and reducers	1	2.76	3.33	0.00	0.60	10.1	11%	276	-6%
9009	Electrostatic photo-copyers	1	1.64	1.51	0.00	0.49	1.1	-24%	60	-31%
9010	Equipment for photographic laboratories	2	0.08	4.24	0.42	0.74	27.1	6%	23,127	11%
Musical instruments										
9207	Musical instruments amplified electrically	1	0.56	2.95	0.00	0.61	19.1	-6%	2,211	4%
9201	Pianos	1	0.71	2.59	0.00	0.46	8.9	3%	806	3%
9205	Wind musical instruments	1	0.70	2.86	0.00	0.60	8.2	32%	812	6%
9209	Parts and accessories of musical instruments	2	0.08	3.09	0.48	0.69	1.6	-10%	1,399	4%
9202	Other string musical	3	0.19	2.23	0.27	0.73	2.7	17%	927	6%

	instruments (for example, guitars, violins, harps)									
9206	Percussion musical instruments	3	0.25	-0.80	0.11	0.66	1.8	0%	494	5%
9208	Music boxes, fairground organs, mechanical street organs and other musical instruments	3	0.14	0.92	0.21	0.71	0.2	-14%	97	-3%
9203	Harmoniums, pipe organs, etc	3	0.00	3.78	0.32	0.83	-	-100%	0	-38%
9204	Accordions and similar instruments	3	0.00	3.02	0.20	0.91	-	-100%	0	-47%

Current, Selected, and “Neither” Products in Chemicals & Plastics

Table 17: Plastics and Articles Thereof

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3923	Packing of goods	1	1.63	0.23	0.00	0.54	1,038.0	9%	41,835	8%
3901	Polymers of ethylene, in primary forms	1	0.91	1.15	0.00	0.53	937.5	13%	69,723	10%
3920	Other not reinforced	1	1.15	1.56	0.00	0.54	891.5	13%	52,393	7%

	plastic plates, sheets, film, foil and strip									
3907	Polyacetals	1	1.16	2.03	0.00	0.60	865.1	13%	53,703	8%
3903	Polymers of styrene, in primary forms	1	2.69	2.36	0.00	0.58	778.3	9%	24,376	6%
3926	Other articles of plastic	1	0.73	2.45	0.00	0.56	672.6	8%	61,748	7%
3902	Polymers of propylene or of other olefins, in primary forms	1	0.76	0.87	0.00	0.55	453.2	18%	41,671	10%
3915	Plastic waste, parings and scrap	1	2.39	- 0.33	0.00	0.54	253.5	22%	7,856	16%
3921	Other plastic plates, sheets, film, foil and strip	1	0.55	1.56	0.00	0.53	182.0	12%	22,053	7%
3919	Self-adhesive plates, sheets, film, foil, tape	1	0.56	3.10	0.00	0.62	146.0	14%	18,176	9%
3908	Polyamides in primary forms	1	0.60	2.83	0.00	0.61	122.3	29%	14,602	8%
3906	Acrylic polymers in primary forms	1	0.57	3.00	0.00	0.63	122.0	20%	14,896	8%
3909	Amino-resins, phenolic resins and polyurethanes, in primary forms	1	0.55	2.73	0.00	0.58	110.7	13%	13,607	8%
3905	Other vinyl polymers in primary forms	1	0.67	2.10	0.00	0.64	44.4	12%	4,660	6%
3904	Polymers of vinyl chloride or of other halogenated olefins, in	2	0.40	2.17	0.30	0.63	109.9	16%	18,669	6%

	primary forms									
3911	Petroleum resins, coumarone-indene resins, polyterpenes, polysulfides, polysulfones	2	0.28	2.90	0.50	0.74	24.9	11%	5,821	7%
3910	Silicones in primary forms	2	0.19	3.67	0.43	0.70	19.3	15%	6,701	7%
3918	Floor coverings of plastics	2	0.26	2.48	0.35	0.66	18.5	8%	4,611	6%
3912	Cellulose not elsewhere specified	2	0.05	2.88	0.42	0.68	4.5	12%	5,673	6%
3913	Natural polymers	2	0.09	2.78	0.45	0.71	3.1	12%	2,145	7%
3914	Ion-exchangers based on natural and ethylene polymers	2	0.02	2.74	0.41	0.72	0.4	0%	1,274	5%
3917	Tubes, pipes and hoses and fittings	3	0.49	1.10	0.06	0.60	154.3	13%	20,727	8%
3924	Plastic tableware, kitchenware or other household products	3	0.50	0.05	-0.01	0.60	93.8	6%	12,522	7%
3925	Plastic builders' ware	3	0.42	1.41	0.07	0.59	55.3	11%	8,559	7%
3916	Monofilament	3	0.26	1.61	0.19	0.63	18.6	10%	4,736	7%
3922	Baths, shower baths, sinks, washbasins, bidets, lavatory pans, seats and covers	3	0.34	1.76	0.18	0.62	18.4	8%	3,444	7%

Table 18: Pharmaceutical Products

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3004	Medicaments, packaged	2	0.04	2.12	0.25	0.66	187.1	10%	330,843	13%
3006	Pharmaceutical goods	2	0.04	2.34	0.35	0.70	7.6	-1%	12,552	9%
3005	Wadding, gauze and bandages	2	0.07	2.04	0.28	0.65	7.5	0%	6,618	7%
3002	Human or animal blood prepared for therapeutic uses	2	0.00	2.55	0.43	0.75	5.8	8%	97,021	18%
3001	Glands and other organs	2	0.00	2.08	0.37	0.75	0.1	-16%	5,012	13%
3003	Medicaments, not packaged	3	0.06	1.26	0.18	0.66	9.1	0%	10,396	7%

Table 19: Organic Chemicals

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
2905	Acyclic alcohols	1	2.50	0.01	0.00	0.54	1,221.2	16%	35,203	10%
2915	Saturated acyclic monocarboxylic acids	1	4.08	1.92	0.00	0.62	754.1	14%	12,840	6%
2902	Cyclic hydrocarbons	1	0.90	1.51	0.00	0.54	678.5	27%	52,787	12%
2901	Acyclic hydrocarbons	1	0.93	1.38	0.00	0.55	410.7	15%	29,991	12%
2916	Unsaturated acyclic monocarboxylic acids	1	2.31	2.56	0.00	0.61	349.0	36%	10,453	6%
2917	Polycarboxylic acids	1	0.87	2.16	0.00	0.61	246.0	9%	20,675	9%
2909	Ethers	1	0.74	1.41	0.00	0.62	177.3	2%	16,063	9%
2903	Halogenated derivatives of hydrocarbons	1	0.92	3.12	0.00	0.61	130.9	24%	9,422	4%
2932	Heterocyclic compounds with oxygen hetero-atom(s) only	1	1.12	2.10	0.00	0.62	115.1	62%	7,497	4%
2938	Glycosides	1	4.05	0.72	0.00	0.63	54.6	87%	955	7%
2911	Acetals and hemiacetals	1	0.96	2.10	0.00	0.62	1.2	4%	84	4%
2922	Oxygen-function amino-compounds	2	0.48	2.24	0.28	0.66	96.3	16%	20,333	8%
2924	Carboxamide-function compounds	2	0.21	2.22	0.32	0.71	24.9	15%	7,665	4%
2941	Antibiotics	2	0.08	2.65	0.35	0.67	16.9	5%	13,719	4%

2931	Other organo-inorganic compounds	2	0.17	2.59	0.34	0.77	16.2	2%	6,056	6%
2929	Compounds with other nitrogen function	2	0.15	2.79	0.41	0.74	13.3	27%	5,929	5%
2937	Hormones	2	0.07	2.84	0.43	0.77	12.0	20%	11,962	10%
2907	Phenols;phenol-alcohols	2	0.10	2.87	0.39	0.74	10.2	1%	8,011	8%
2933	Heterocyclic compounds with nitrogen hetero-atom(s) only	2	0.01	2.36	0.36	0.74	8.5	11%	75,454	10%
2930	Organo-sulfur compounds	2	0.05	3.00	0.42	0.72	5.9	13%	8,884	7%
2942	Other organic compounds	2	0.33	1.55	0.24	0.65	5.6	23%	1,163	7%
2934	Nucleicacids and their salts	2	0.02	2.75	0.37	0.72	5.1	25%	22,222	7%
2914	Ketones and quinones	2	0.04	2.55	0.37	0.72	4.1	8%	6,727	6%
2912	Aldehydes	2	0.10	2.06	0.35	0.68	3.0	11%	2,071	4%
2921	Amine-function compounds	2	0.02	2.28	0.37	0.67	2.9	10%	11,068	6%
2926	Nitrile-function compounds	2	0.03	2.63	0.35	0.76	2.8	13%	6,735	7%
2923	Quaternary ammonium salts and hydroxides	2	0.08	2.54	0.35	0.70	2.6	7%	2,064	8%
2910	Epoxides	2	0.03	2.91	0.39	0.74	2.2	11%	4,838	8%
2925	Carboxyimide-function compounds	2	0.03	2.90	0.40	0.69	0.5	17%	1,288	5%
2920	Esters of other inorganic acids of nonmetals	2	0.02	3.00	0.43	0.70	0.5	-5%	1,593	5%
2935	Sulfonamides	2	0.01	2.84	0.38	0.76	0.3	-2%	6,287	8%

2919	Phosphoric esters and their salts	2	0.01	2.42	0.38	0.75	0.2	-1%	856	6%
2940	Sugars, chemically pure, other than sucrose, lactose, maltose, glucose and fructose	2	0.01	2.17	0.30	0.67	0.2	-11%	937	9%
2908	Halogenated, sulfonated, nitrated or nitrosated derivatives of phenols or phenol-alcohols	2	0.00	2.78	0.35	0.73	0.0	-23%	639	1%
2928	Organic derivatives of hydrazine or of hydroxylamine:	2	0.00	2.59	0.34	0.72	0.0	1%	1,155	7%
2936	Vitamins	3	0.21	0.90	0.20	0.76	22.0	17%	6,963	3%
2918	Carboxylic acids with additional oxygen function	3	0.08	1.37	0.20	0.67	9.2	10%	7,713	4%
2939	Vegetable alkaloids	3	0.05	0.82	0.23	0.67	1.8	-3%	2,424	5%
2904	Sulfonated, nitrated or nitrosated derivatives of hydrocarbons	3	0.04	1.10	0.22	0.64	0.7	8%	1,193	4%
2913	Halogenated, sulfonated, nitrated or nitrosated derivatives of aldehydes	3	0.54	2.76	0.31	0.76	0.6	24%	74	0%
2906	Cyclic alcohols and their halogenated, sulfonated, nitrated or nitrosated derivatives	3	0.01	1.67	0.24	0.77	0.4	7%	2,179	7%
2927	Diazo-, azo- or azoxy-compounds:	3	0.00	2.16	0.23	0.70	0.0	-8%	563	4%

Table 20: Rubber and Articles Thereof

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
4015	Articles of apparel and clothing accessories of vulcanized rubber	1	36.42	0.24	0.00	0.55	3,490.4	10%	6,224	8%
4001	Natural rubber	1	6.24	- 5.83	0.00	0.38	2,765.9	5%	29,176	11%
4005	Compounded rubber	1	5.43	0.92	0.00	0.58	788.8	31%	9,431	13%
4016	Other articles of vulcanized rubber	1	0.70	2.12	0.00	0.54	241.5	5%	22,762	7%
4007	Vulcanized rubber thread and cord	1	23.00	- 1.13	0.00	0.18	219.8	3%	632	6%
4009	Tubes, pipes and hoses, of vulcanized rubber	1	1.02	2.84	0.00	0.56	151.8	14%	9,702	7%
4014	Hygienic or pharmaceutical articles of vulcanized rubber	1	7.64	1.68	0.00	0.59	145.6	10%	1,263	6%
4008	Plates, sheets, strip, rods and profile shapes, of vulcanized rubber	1	1.42	2.60	0.00	0.57	90.7	8%	4,185	6%
4012	Retreaded or used	1	0.97	2.19	0.00	0.56	41.3	15%	2,801	7%

	pneumatic tires of rubber									
4003	Reclaimed rubber	1	4.11	1.22	0.00	0.58	19.9	14%	317	13%
4006	Other forms of unvulcanized rubber	1	1.45	1.73	0.00	0.54	12.0	0%	559	5%
4017	Hard rubber	1	1.66	1.61	0.00	0.55	6.5	8%	258	3%
4004	Waste, parings and scrap of rubber	1	0.79	0.66	0.00	0.55	3.1	12%	261	8%
4002	Synthetic rubber	2	0.37	2.74	0.43	0.71	153.0	10%	28,105	10%
4011	New pneumatic tires, of rubber	3	0.15	1.62	0.13	0.61	202.5	8%	85,899	9%
4010	Conveyor or transmission belts of vulcanized rubber	3	0.29	2.03	0.21	0.60	27.9	9%	6,285	7%
4013	Inner tubes of rubber	3	0.39	0.94	0.07	0.63	7.7	4%	1,332	5%

Table 21: Miscellaneous Chemical Products

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3823	Industrial monocarboxylic fatty acids; acid oils from refining; industrial fatty alcohols	1	1.01	2.19	0.00	0.57	713.7	13%	47,265	10%

3808	Insecticides, rodenticides, fungicides, herbicides	1	0.72	0.53	0.00	0.61	328.6	11%	29,791	7%
3818	Chemical element/compound wafers doped for electronic	1	1.84	3.77	0.00	0.56	275.4	-3%	12,639	7%
3812	Prepared rubber accelerators	1	1.60	2.59	0.00	0.64	103.8	13%	4,479	6%
3802	Activated carbon	1	1.25	0.64	0.00	0.62	45.8	5%	2,367	7%
3810	Metal pickling preparations	1	0.80	3.14	0.00	0.60	20.2	6%	1,821	7%
3815	Reaction initiators, reaction accelerators and catalytic products	2	0.37	2.46	0.42	0.73	86.6	21%	15,175	9%
3816	Refractory cements, mortars	2	0.47	2.05	0.28	0.63	16.1	5%	2,205	7%
3811	Anti-knock	2	0.10	1.56	0.31	0.73	15.8	18%	12,143	6%
3809	Finishing agents for dyeing	2	0.26	1.71	0.28	0.65	15.2	10%	4,051	5%
3801	Artificial graphite	2	0.36	2.21	0.32	0.71	12.0	28%	2,184	7%
3822	Diagnostic or laboratory reagents	2	0.03	2.78	0.46	0.72	9.7	17%	21,567	10%
3819	Hydraulic brake, transmission fluid <70% petroleum oil	2	0.22	1.81	0.29	0.71	2.7	13%	790	7%
3813	Preparations and charges for fire-extinguishers	2	0.32	2.53	0.33	0.75	1.4	18%	277	6%
3820	Antifreezing preparations and deicing fluids	2	0.04	2.38	0.32	0.67	0.8	8%	1,291	9%
3803	Tall oil	2	0.16	2.40	0.32	0.75	0.7	34%	292	7%
3821	Prepared culture media for development or maintenance of micro-organisms (including viruses and the like) or of plant, human or animal cells	2	0.03	2.32	0.37	0.75	0.6	26%	1,267	9%
3814	Organic composite solvents	3	0.17	1.48	0.24	0.68	11.0	10%	4,201	14%

	and thinners									
3817	Mixed alkylbenzenes and mixed alkylnaphthalenes	3	0.07	0.13	0.18	0.73	2.8	13%	2,711	9%
3806	Rosin and resin acids	3	0.10	0.92	0.15	0.72	2.7	12%	1,757	4%
3804	Residual lyes from wood pulp	3	0.17	1.98	0.31	0.75	1.1	23%	440	5%
3805	Gum, wood or sulfate turpentine	3	0.17	0.47	0.04	0.68	0.6	11%	216	4%
3807	Wood tar, oils, creosote, naphtha; vegetable pitch	3	0.21	1.80	0.31	0.76	0.4	15%	134	10%

Table 22: Inorganic Chemicals & Metal Compounds

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
2814	Ammonia	1	1.45	- 2.25	0.00	0.49	235.5	26%	10,418	10%
2836	Carbonates; peroxocarbonates (percarbonates); commercial ammonium carbonate containing ammonium carbamate	1	0.75	0.75	0.00	0.57	67.3	13%	5,832	6%
2811	Other inorganic acids and other inorganic oxygen compounds of nonmetals	1	0.81	1.93	0.00	0.57	53.6	11%	4,426	7%
2842	Other salts of inorganic acids or	1	2.40	2.06	0.00	0.61	15.1	35%	429	5%

	peroxoacids									
2821	Iron oxides and hydroxides	1	0.93	1.96	0.00	0.60	14.9	21%	1,064	3%
2840	Borates; peroxoborates	1	0.68	0.98	0.00	0.60	10.2	24%	953	3%
2824	Lead oxides	1	3.43	0.14	0.00	0.62	9.3	22%	188	0%
2823	Titanium oxides	1	0.55	1.42	0.00	0.59	8.7	-4%	1,020	1%
2806	Hydrogen chloride (Hydrochloric acid); chlorosulfuric acid	1	1.20	1.52	0.00	0.56	6.5	7%	351	7%
2802	Sulfur, sublimed or precipitated	1	1.29	- 0.40	0.00	0.45	6.1	9%	320	11%
2851	Inorganic compounds, liquid or compressed air	2	0.28	3.32	0.45	0.70	3.2	17%	733	10%
2812	Halides and halide oxides of nonmetals	2	0.06	3.25	0.39	0.76	0.7	32%	701	8%
2850	Hydrides, nitrides, azides, silicides and borides	2	0.04	3.25	0.38	0.72	0.4	17%	618	5%
2816	Hydroxide and peroxide of magnesium; oxides, hydroxides and peroxides, of strontium or barium	2	0.03	1.80	0.30	0.71	0.1	6%	212	7%
2803	Carbon, nesoi	3	0.32	1.21	0.19	0.66	25.4	23%	5,131	11%
2804	Hydrogen, rare gases and other nonmetals	3	0.11	0.59	0.11	0.67	20.6	13%	12,064	10%
2833	Sulfates; alums; peroxosulfates (persulfates)	3	0.35	0.48	-0.01	0.62	16.3	10%	3,161	7%
2835	Phosphinates and phosphonates	3	0.27	1.48	0.23	0.67	16.3	7%	3,913	5%
2849	Carbides	3	0.35	1.38	0.18	0.67	13.0	21%	2,447	7%
2809	Diphosphorus pentoxide;	3	0.16	0.66	0.11	0.76	12.1	8%	4,763	6%

	phosphoric acid; polyphosphoric acids									
2825	Hydrazine and hydroxylamine, inorganic salts	3	0.17	0.76	0.21	0.68	11.5	16%	4,442	8%
2827	Chlorides, chloride oxides and chloride hydroxides; bromides and bromide oxides; iodides and iodide oxides	3	0.29	1.63	0.27	0.70	11.1	14%	2,465	7%
2817	Zinc oxide and peroxide	3	0.48	0.50	0.07	0.68	7.4	10%	1,029	7%
2807	Sulfuric acid; oleum	3	0.30	1.29	0.18	0.67	7.2	18%	1,572	10%
2818	Artificial corundum	3	0.04	- 0.88	0.07	0.72	6.2	21%	11,563	5%
2839	Silicates; commercial alkali metal silicates	3	0.54	0.72	0.07	0.64	6.1	-3%	734	4%
2815	Sodium hydroxide; potassium hydroxide; peroxides of sodium or potassium	3	0.06	0.54	0.17	0.63	5.1	8%	5,282	9%
2846	Compounds, inorganic or organic, of rare-earth metals	3	0.11	1.33	0.29	0.75	3.6	33%	2,119	10%
2828	Hypochlorites; commercial calcium hypochlorite; chlorites; hypobromites	3	0.36	0.76	0.06	0.61	3.0	12%	542	5%
2805	Alkali or alkaline-earth metals; rare-earth metals, scandium and yttrium	3	0.16	0.35	0.13	0.79	2.9	31%	1,291	10%
2820	Manganese oxides	3	0.38	0.99	0.10	0.76	2.3	39%	400	4%
2808	Sulfonitric acids	3	0.47	1.45	0.23	0.65	2.2	16%	303	6%
2801	Fluorine, chlorine, bromine and iodine	3	0.08	- 1.03	0.05	0.75	2.2	7%	1,847	8%

2834	Nitrites; nitrates	3	0.09	-	0.15	0.71	2.0	6%	1,398	7%
				0.11						
2822	Cobalt oxides and hydroxides	3	0.22	0.19	0.07	0.78	1.9	27%	584	4%
2844	Radioactive chemical elements and radioactive isotopes	3	0.00	-	0.13	0.81	1.3	25%	19,420	9%
				0.17						
2810	Oxides of boron; boric acids	3	0.06	0.09	0.05	0.77	0.6	14%	617	7%
2843	Colloidal precious metals; inorganic or organic compounds of precious metals	3	0.01	1.24	0.25	0.74	0.5	17%	6,227	10%
2819	Chromium oxides and hydroxides	3	0.04	0.76	0.10	0.81	0.4	13%	598	6%
2829	Chlorates and perchlorates; bromates and perbromates; iodates and periodates	3	0.02	-	-0.01	0.79	0.3	8%	900	6%
				1.19						
2841	Salts of oxometallic or peroxometallic acids	3	0.01	0.65	0.14	0.73	0.3	0%	1,660	8%
2832	Sulfites; thiosulfates	3	0.05	0.48	0.16	0.73	0.3	9%	363	6%
2826	Fluorides; fluorosilicates, fluoroaluminates	3	0.01	1.08	0.19	0.64	0.2	16%	1,084	5%
2813	Sulfides of nonmetals	3	0.06	1.63	0.22	0.77	0.2	4%	206	5%
2847	Hydrogen peroxide	3	0.01	0.71	0.18	0.64	0.1	0%	725	5%
2831	Dithionites and sulfoxylates	3	0.02	2.13	0.16	0.78	0.1	9%	305	5%
2830	Sulfides; polysulfides	3	0.01	0.52	0.16	0.75	0.1	2%	617	8%
2837	Cyanides	3	0.00	0.62	0.23	0.73	0.0	0%	1,329	9%
2845	Isotopes not elsewhere specified	3	0.00	1.99	0.30	0.78	0.0	-5%	237	2%
2848	Phosphides	3	0.01	2.13	0.28	0.77	0.0	7%	79	8%
2838	Fulminates, cyanates and thiocyanates	3	0.00	2.67	-0.04	0.69	-	-100%	1	-20%

Table 23: Essential Oils, Perfumes, Cosmetics, Toiletries

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3307	Shaving products	1	0.64	1.54	0.00	0.55	99.1	11%	9,993	7%
3304	Beauty or make-up preparations	2	0.25	1.01	0.22	0.60	106.9	14%	27,873	9%
3305	Hair products	3	0.24	0.88	0.04	0.58	43.5	6%	11,781	9%
3306	Dental hygiene products	3	0.37	0.40	0.08	0.62	25.6	10%	4,449	7%
3302	Mixtures of odoriferous substances and mixtures	3	0.05	0.40	0.18	0.74	13.7	6%	19,221	9%
3303	Perfumes and toilet waters	3	0.04	0.43	0.17	0.64	9.5	6%	14,583	8%
3301	Essential oils	3	0.07	- 1.07	-0.18	0.66	3.6	7%	3,575	6%

Table 24: Fertilizers

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3102	Mineral or chemical fertilizers, nitrogenous	1	0.86	-0.85	0.00	0.50	402.7	13%	30,469	11%
3101	Animal or vegetable fertilizers	1	0.57	0.23	0.00	0.56	6.4	15%	724	13%
3105	Mineral or chemical fertilizers, mixed	3	0.35	-0.79	-0.17	0.58	131.3	13%	24,131	9%
3104	Mineral or chemical fertilizers, potassic	3	0.07	-0.48	0.06	0.79	22.1	13%	19,598	11%
3103	Mineral or chemical fertilizers, phosphatic	3	0.04	-0.75	-0.14	0.76	1.5	6%	2,514	7%

Table 25: Tanning, Dyeing, Coloring Extracts

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3208	Paints and varnishes, nonaqueous	1	1.07	1.02	0.00	0.55	219.6	15%	13,438	6%
3215	Ink	1	1.11	2.69	0.00	0.59	208.7	13%	12,665	8%
3206	Other coloring matter	1	0.85	2.50	0.00	0.61	172.3	8%	13,681	7%
3214	Glaziers' putty	1	0.77	2.18	0.00	0.56	84.7	11%	7,115	7%
3212	Pigments, nonaqueous	1	2.21	2.40	0.00	0.59	76.4	18%	2,282	6%
3209	Paints and varnishes, aqueous	1	0.62	1.12	0.00	0.55	54.1	10%	5,750	8%
3210	Other paints and varnishes	1	0.81	0.98	0.00	0.54	9.4	10%	797	4%
3202	Synthetic organic tanning substances	1	0.74	0.11	0.00	0.65	9.1	39%	830	3%
3211	Prepared driers	1	0.56	0.85	0.00	0.61	1.8	19%	212	5%
3204	Synthetic organic coloring matter	2	0.08	2.14	0.30	0.65	14.8	8%	11,993	0%
3207	Prepared pigments	2	0.18	2.24	0.35	0.72	10.6	6%	4,045	6%

3213	Artists' colors	2	0.15	1.86	0.31	0.70	1.2	-3%	522	5%
3203	Coloring matter of vegetable or animal origin	3	0.47	1.44	0.24	0.73	9.2	24%	1,264	8%
3201	Tanning extracts of vegetable origin	3	0.05	-	-0.18	0.73	0.3	14%	369	4%
				1.97						
3205	Color lakes	3	0.03	1.13	0.28	0.71	0.1	7%	251	5%

Table 26: Soaps, Lubricants, Waxes, Candles

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3401	Soap	1	4.55	-	0.00	0.55	435.2	10%	6,226	8%
				1.32						
3402	Cleaning products	1	0.66	0.56	0.00	0.54	297.3	12%	29,326	8%
3404	Artificial and prepared waxes	1	2.94	1.74	0.00	0.63	118.1	11%	2,657	7%
3403	Lubricating products	2	0.27	2.84	0.45	0.70	39.4	16%	9,417	10%
3407	Model and dental pastes and waxes	2	0.30	3.07	0.45	0.70	2.7	-3%	595	7%
3406	Candles	3	0.32	1.20	0.14	0.65	13.6	3%	2,746	8%
3405	Polishes and creams	3	0.21	1.30	0.13	0.60	6.6	-1%	2,115	6%

Table 27: Starches, Glues, Enzymes

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3506	Glues and adhesives	1	0.76	1.92	0.00	0.58	107.2	10%	9,583	8%
3507	Enzymes	2	0.25	1.55	0.31	0.73	17.7	27%	4,610	6%
3505	Dextrins and other modified starches	2	0.14	2.10	0.30	0.68	7.8	7%	3,572	6%
3504	Peptones	2	0.02	2.36	0.36	0.71	0.7	18%	2,233	8%
3503	Gelatin	3	0.05	0.99	0.16	0.70	1.4	11%	1,923	6%
3501	Casein	3	0.03	1.01	0.10	0.78	1.3	16%	2,548	4%
3502	Albumins (water soluble proteins)	3	0.00	1.89	0.27	0.73	0.1	13%	1,401	10%

Table 28: Photographic or Cinematographic Goods (Film, Paper, Plates, Chemicals)

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3701	Photographic plates	1	1.86	3.22	0.00	0.66	154.9	17%	5,399	2%
3702	Photographic film in rolls	1	2.30	3.69	0.00	0.59	78.3	11%	2,226	-7%
3704	Photographic plates, film, paper, exposed but not developed	1	1.42	1.42	0.00	0.58	0.8	10%	37	-7%
3707	Chemical preparations for photographic uses	2	0.29	3.70	0.52	0.73	29.8	2%	6,847	3%
3705	Photographic plates and film, exposed and developed, not motion-picture film	2	0.10	3.58	0.42	0.77	1.1	3%	751	3%
3703	Photographic paper	2	0.03	3.17	0.45	0.76	0.5	-13%	1,237	-6%
3706	Motion-picture film, exposed and developed	3	0.08	1.60	0.19	0.74	0.2	2%	157	-5%

Table 29: Explosives, Powders, Matches

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
3606	Ferrocium and other pyrophoric alloys	2	0.48	1.65	0.28	0.65	2.4	8%	324	6%
3601	Propellant powders	2	0.01	2.38	0.35	0.72	0.0	9%	415	8%
3602	Prepared explosives	3	0.34	-1.34	-0.15	0.59	4.8	6%	919	6%
3603	Safety or detonating fuses	3	0.19	-0.35	0.05	0.64	4.1	13%	1,402	8%
3604	Fireworks	3	0.11	1.93	0.28	0.73	1.9	-2%	1,185	6%
3605	Matches	3	0.13	-1.64	-0.14	0.65	0.5	-7%	224	2%

Current, Selected, and “Neither” Products in Electrical & Electronics

Table 30: Semiconductors, Circuits and Related

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
8542	Electronic integrated circuits	1	3.93	2.65	0.00	0.56	13,314.4	-1%	306,062	4%
8541	Diodes, transistors, semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells	1	4.42	2.61	0.00	0.58	4,937.2	6%	81,791	8%
8536	Apparatus protecting electrical circuits for < 1k volts	1	1.38	2.07	0.00	0.53	1,719.9	9%	83,963	6%
8537	Electrical Boards and panels for protecting electrical circuits	1	1.96	2.40	0.00	0.53	1,316.0	16%	44,254	11%
8534	Electronic printed circuits	1	1.80	2.50	0.00	0.50	928.1	4%	40,622	8%
8532	Electrical capacitors	1	3.13	2.34	0.00	0.54	865.8	5%	19,735	4%
8543	Electrical machines and apparatus with individual functions not elsewhere	1	1.62	2.56	0.00	0.53	570.4	7%	23,395	4%

specified										
8538	Parts for use with apparatus for protecting electrical circuits	1	0.60	2.47	0.00	0.55	280.3	12%	31,507	8%
8533	Electrical resistors	1	1.77	2.23	0.00	0.53	212.9	1%	8,641	3%
8540	Thermionic, cold cathode or photocathode tubes	1	4.08	2.89	0.00	0.57	161.6	-13%	2,608	-13%
8539	Electrical filament	2	0.07	2.04	0.29	0.64	20.0	2%	17,523	5%
8535	Apparatus protecting electrical circuits for > 1k volts	3	0.39	1.85	0.18	0.59	53.3	2%	8,999	6%

Table 31: Telephones, Sound, and Video Devices

HS4 product code	HS4productname	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
8517	Telephones	1	2.74	2.36	0.00	0.52	8,139.8	12%	205,366	10%
8521	Video recording apparatus	1	1.90	2.11	0.00	0.52	1,512.3	0%	54,961	10%
8529	Parts of radios, telephones and TVs	1	1.31	2.73	0.00	0.54	1,368.7	3%	71,803	7%
8523	Storage devices, smart cards, discs, tapes etc	1	3.94	2.25	0.00	0.58	1,309.8	6%	30,079	7%

8518	Microphones; loudspeakers; headphones	1	1.74	2.36	0.00	0.57	773.9	2%	29,711	7%
8522	Parts and accessories for video or sound equipment	1	2.55	2.04	0.00	0.50	218.8	-11%	5,999	-4%
8519	Sound recording apparatus	1	2.53	2.78	0.00	0.62	164.1	-11%	4,327	-2%
8520	Dictating machine	1	1.05	2.19	0.00	0.61	0.3	-36%	23	-27%
8524	Recorded gramophone records	2	0.21	2.90	0.40	0.68	58.6	-3%	20,208	1%

Table 32: Transmission and Reception Devices

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
8528	Monitors and projectors; reception apparatus for television	1	3.00	1.79	0.00	0.53	3,956.5	5%	87,246	10%
8525	Transmission apparatus for radio, telephone and TV	1	1.25	1.95	0.00	0.54	3,789.6	21%	208,707	13%

8527	Reception apparatus for radio broadcasting	1	6.09	2.18	0.00	0.54	1,736.4	-4%	18,689	-1%
8526	Radar and radio navigational aid apparatus	1	1.13	2.80	0.00	0.58	294.7	7%	19,303	11%
8528	Monitors and projectors; reception apparatus for television	1	3.00	1.79	0.00	0.53	3,956.5	5%	87,246	10%

Table 33: Motors, Generators, Transformers, Batteries

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
8504	Electrical transformers	1	0.82	2.13	0.00	0.53	974.3	0%	79,059	6%
8505	Electromagnets	1	2.51	2.93	0.00	0.57	355.6	13%	9,393	8%
8506	Primary cells and primary batteries	1	1.00	2.34	0.00	0.59	94.5	6%	6,684	3%
8548	Waste and scrap of batteries; used batteries	1	1.05	2.58	0.00	0.57	52.3	-4%	3,553	1%
8503	Parts for use with	2	0.50	2.17	0.23	0.60	147.1	11%	19,377	9%

	electric generators or converters									
8511	Electrical ignition or starting equipment	2	0.36	2.39	0.28	0.62	103.5	13%	18,736	6%
8502	Electric generating sets and rotary converters	2	0.21	2.11	0.30	0.62	86.6	20%	26,701	11%
8507	Electric storage batteries	3	0.52	1.46	0.17	0.63	251.6	8%	32,173	8%
8501	Electric motors and generators	3	0.23	2.01	0.20	0.59	169.6	-7%	47,829	7%

Table 34: Wire, Insulators, Fittings

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
8544	Insulated wire; optical fiber cables	1	0.62	0.42	0.00	0.54	954.0	7%	100,593	7%
8546	Electrical insulators of any material	1	0.91	1.94	0.00	0.56	35.7	4%	2,536	4%
8545	Carbon electrodes or other articles of graphite or carbon used for electrical purposes	2	0.53	2.17	0.30	0.71	52.6	20%	6,514	6%

8547	Insulating fittings for electrical machines, appliances or equipment	2	0.34	2.98	0.44	0.64	22.3	1%	4,353	5%
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Table 35: Electrical Appliances

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
8509	Electromechanical domestic appliances	1	3.65	2.44	0.00	0.59	1,009.5	18%	18,034	8%
8516	Electric instantaneous or storage water heaters	1	1.11	2.57	0.00	0.58	679.8	9%	40,100	7%
8508	Vacuum cleaners	1	1.80	2.63	0.00	0.59	366.1	10%	13,141	5%
8514	Industrial or laboratory electric furnaces	1	0.77	2.54	0.00	0.58	61.8	15%	5,297	5%
8510	Shavers, hair clippers and hair-removing appliances	2	0.01	3.15	0.38	0.70	0.5	-17%	3,324	7%

Table 36: Electrical lamp, lighting and signaling devices

HS4 product code	HS4 product name	1=has RCA, 2=selected, 3=neither	RCA	PCI	Opp. gain	Distance	Total exports, Malaysia (US million)	Avg. annual growth Malaysia (1997-2012)	Total exports, world (US million)	Avg. annual growth world (1997-2012)
8512	Electrical lighting or signaling equipment used for motor vehicles	1	0.81	2.43	0.00	0.57	235.7	12%	19,298	9%
8531	Electric sound or visual signaling apparatus	1	1.04	2.14	0.00	0.53	220.1	-1%	14,765	4%
8515	Electric laser or other light or photon beam	2	0.31	3.09	0.45	0.65	49.3	6%	10,435	4%
8513	Portable electric lamps designed to function by their own source of energy	3	0.48	1.78	0.15	0.78	22.0	12%	3,036	7%
8530	Electric signal, safety & traffic controls, railways, waterways, parking or airfields	3	0.37	1.72	0.17	0.63	12.8	-2%	2,272	6%

