Supplementary material 1. The level of stringency of chemical management by 78 WTO member countries for the period of 1995-2017

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| --- | --- | --- | --- | --- | --- |
| Level | 0 | 1 | 2 | 3 | 4 |
| South Korea | 1995-2000 | - | 2001-2010*Identification & classification of hazardous chemicals(G/TBT/N/KOR/8)* | - | 2011-2017*Registration of existing chemicals(G/TBT/N/KOR/305)* |
| Taiwan | 1995-2003 | 2004-2006*Partial control: safety requirements for fuming products(G/TBT/N/TPKM/16)* | 2007-2010*Classification & labelling of chemicals (G/TBT/N/TPKM/49)* | 2011-2013*Registration of new chemicals(G/TBT/N/TPKM/102)* | 2014-2017*Registration of existing chemicals(G/TBT/N/TPKM/175)* |
| Albania | 1995-2007 | 2008-2011*Partial control: registration of fertilizers(G/TBT/N/ALB/32)* | 2012-2014*Classification & listing of chemicals(G/TBT/N/ALB/53)* | 2015-2017*Integrated chemical controls including registration of new chemicals(G/TBT/N/ALB/71)* | - |
| Australia | 1995 | 1996-2003*Partial control: standardization of disinfectants(G/TBT/Notif.96/212)* | - | 2004-2017*Registration & assessment of new chemicals(G/TBT/N/AUS/34)* | - |
| Brazil | 1995-2002 | 2003-2015*Partial control: registration & evaluation of pesticides(G/TBT/N/BRA/137)* | - | 2016-2017*Registration & evaluation of new chemicals(G/TBT/N/BRA/686)* | - |
| Canada | 1995-1998 | - | 1999-2003*Labelling requirement for chemicals(G/TBT/Notif.99/650)* | 2004-2017*Registration of new chemicals**(G/TBT/N/CAN/110)* | - |
| Chile | 1995-2004 | 2005-2016*Partial control: registration of pesticides(G/TBT/N/CHL/42)* | - | 2017*Registration of new chemicals(G/TBT/N/CHL/422)* | - |
| China | 1995-2001 | 2002-2004*Partial control: inspection & verification of cosmetics(G/TBT/N/CHN/2)* | 2005-2008*Identification & classification of toxicity in chemicals(G/TBT/N/CHN/79)* | 2009-2017*Registration of new chemicals(G/TBT/N/CHN/210/Rev.1)* | - |
| Costa Rica | 1995-2005 | 2006-2016*Partial control: registration of Pesticides(G/TBT/N/CRI/51)* | - | 2017*Registration of new chemicals(G/TBT/N/CRI/164)* | - |
| Switzerland | 1995 | - | 1996-2003*Classification & Labelling of hazardous chemicals(G/TBT/Notif.96/37)* | 2004-2017*Registration of new chemical substances(G/TBT/N/CHE/35)* | - |
| Argentina | 1995-2000 | - | 2001-2017*Identification & prohibition of hazardous substances(G/TBT/N/ARG/19)* | - | - |
| Colombia | 1995-2009 | 2010-2016*Partial control: registration of pesticides, cosmetics, etc.(G/TBT/N/COL/153)* | 2017*Classification & labelling of chemicals(G/TBT/N/COL/229)* | - | - |
| Egypt | 1995-2004 | 2005-2008*Partial control: standardization of chemical products(G/TBT/N/EGY/3)* | 2009-2017*Comprehensive requirements for control of hazardous substances(G/TBT/N/EGY/8)* | - | - |
| Ghana | 1995-2005 | - | 2006-2017*Identification of quality & safety of chemical products(G/TBT/N/GHA/3)* | - | - |
| India | 1995-2007 | 2008-2011*Partial control: registration of cosmetics(G/TBT/N/IND/33)* | 2012-2017*Classification & labelling of hazardous substances(G/TBT/N/IND/42)* | - | - |
| Israel | 1995-2003 | - | 2004-2017*Identification & classification of chemicals(G/TBT/N/ISR/63)* | - | - |
| Japan | 1995 | - | 1996-2017*Identification & classification of hazardous substances(G/TBT/Notif.96/1)* | - | - |
| New Zealand | 1995-2007 | 2008-2014*Partial control: restriction of certain paint products(G/TBT/N/NZL/43)* | 2015-2017*Comprehensive management including classification of hazardous substances(G/TBT/N/NZL/71)* | - | - |
| Philippines | 1995-1998 | - | 1999-2017*Comprehensive import control including classification of chemical products(G/TBT/Notif.99/393)* | - | - |
| Singapore | - | 1995-1997*Partial control: labelling requirement for paints(G/TBT/Notif.95/84)* | 1998-2017*Identification & classification of hazardous substances(G/TBT/Notif.98/573)* | - | - |
| South Africa | 1995-1997 | 1998-2008*Partial control: disinfectants & detergent-disinfectants(G/TBT/Notif.99/351)* | 2009-2017*Identification & restriction of hazardous substances(G/TBT/N/ZAF/106)* | - | - |
| Thailand | 1995-1997 | 1998*Partial control: standardization & management of detergents(G/TBT/Notif.98/219)* | 1999-2017*Identification & classification of hazardous substances(G/TBT/Notif.99/342)* | - | - |
| Turkey | 1995-2008 | 2009-2012*Partial control: inspection & management of fertilizers(G/TBT/N/TUR/3)* | 2013-2017*Comprehensive import control including classification of chemicals(G/TBT/N/TUR/21)* | - | - |
| Uganda | 1995-2008 | - | 2009-2017*Comprehensive import control including classification of chemical products(G/TBT/N/UGA/45)* | - | - |
| United States | 1995-1998 | 1999-2003*Partial control: registration of pesticides(G/TBT/Notif.99/487)* | 2004-2017*Identification & classification of toxic substances(G/TBT/N/USA/87)* | - | - |
| Armenia | 1995-2003 | 2004-2017*Partial control: safety requirements for paints & varnishes(G/TBT/N/ARM/7)* | - | - | - |
| Bolivia | 1995-1997 | 1998-2017*Partial control: standardization of sanitation materials(G/TBT/Notif.98/528)* | - | - | - |
| Cameroon | 1995-2006 | 2007-2017*Partial control: standardization of consumer chemical products(G/TBT/N/CMR/3)* | - | - | - |
| Dominican Republic | 1995-2012 | 2013-2017*Partial control: standardizing & labelling requirements for paints(G/TBT/N/DOM/199)* | - | - | - |
| Ecuador | 1995-2010 | 2011-2017*Partial control: standardizing & labelling requirements for thinners(G/TBT/N/ECU/82)* | - | - | - |
| El Salvador | 1995-2009 | 2010-2017*Partial control: labelling requirements for pesticides(G/TBT/N/SLV/144)* | - | - | - |
| Georgia | 1995-2009 | 2010-2017*Partial control: registration of hazardous industrial objects(G/TBT/N/GEO/7)* | - | - | - |
| Guatemala | 1995-1999 | 2000-2017*Partial control: classification & labelling of pesticides(G/TBT/Notif.00/287)* | - | - | - |
| Guyana | 1995-2002 | 2003-2017*Partial control: labelling requirements of cosmetics(G/TBT/N/GUY/9)* | - | - | - |
| Honduras | 1995-2008 | 2009-2017*Partial control: registration of fertilizers(G/TBT/N/HND/57)* | - | - | - |
| Indonesia | 1995-2001 | 2002-2017*Partial control: standardization of fertilizers(G/TBT/N/IDN/4)* | - | - | - |
| Jamaica | 1995-2013 | 2014-2017*Partial control: labelling requirements for pesticides(G/TBT/N/JAM/42)* | - | - | - |
| Jordan | 1995-2011 | 2012-2017*Partial control: restriction of products containing certain biocides(G/TBT/N/JOR/32)* | - | - | - |
| Kazakhstan | 1995-2015 | 2016-2017*Partial control: safety requirements for cosmetics(G/TBT/N/KAZ/9)* | - | - | - |
| Kyrgyzstan | 1995-2015 | 2016-2017*Partial control: safety requirements for cosmetics(G/TBT/N/KGZ/38)* | - | - | - |
| Malaysia | 1995-1996 | 1997-2017*Partial control: quality requirements for solutions using sodium hypochlorite(G/TBT/Notif.97/762)* | - | - | - |
| Mexico | 1995-2002 | 2003-2017*Partial control: quality requirements for chemical products of animal use(G/TBT/N/MEX/48)* | - | - | - |
| Moldova | 1995-2013 | 2014-2017*Partial control: prohibition of certain hazardous chemical substances(G/TBT/N/MDA/21)* | - | - | - |
| Morocco | 1995-2011 | 2012-2017*Partial control: registration of cosmetics & toiletries(G/TBT/N/MAR/25)* | - | - | - |
| Mozambique | 1995-2011 | 2012-2017*Partial control: uniform framework of standardization(G/TBT/N/MOZ/5)* | - | - | - |
| Oman | 1995-2004 | 2005-2017*Partial control: safety requirements for certain paints(G/TBT/N/OMN/5)* | - | - | - |
| Paraguay | 1995-2008 | 2009-2017*Partial control: registration of pesticides(G/TBT/N/PRY/22)* | - | - | - |
| Peru | 1995-1999 | 2000-2017*Partial control: registration of pesticides(G/TBT/Notif.00/362)* | - | - | - |
| Russia | 1995-2012 | 2013-2017*Partial control: safety requirements for synthetic detergents & household chemicals(G/TBT/N/RUS/3)* | - | - | - |
| Saint Lucia | 1995-2002 | 2003-2017*Partial control: labelling requirements for pesticides(G/TBT/N/LCA/5)* | - | - | - |
| Saudi Arabia | 1995-2014 | 2015-2017*Partial control: safety & labelling requirements for cosmetics(G/TBT/N/SAU/861)* | - | - | - |
| Sri Lanka | 1995-1999 | 2000-2017*Partial control: test requirements for safety of baby soap(G/TBT/Notif.00/465)* | - | - | - |
| Tanzania | 1995-2008 | 2009-2017*Partial control: test requirements for safety of certain fertilizers(G/TBT/N/TZA/9)* | - | - | - |
| North Macedonia | 1995-2009 | 2010-2017*Partial control: restriction of chemical substances depleting ozone layer(G/TBT/N/MKD/6)* | - | - | - |
| Trinidad & Tobago | 1995-2000 | 2001-2017*Partial control: safety & labelling requirements for certain detergents(G/TBT/N/TTO/3)* | - | - | - |
| Ukraine | 1995-2007 | 2008-2017*Partial control: safety requirements for detergents(G/TBT/N/UKR/4)* | - | - | - |
| Uruguay | 1995-1998 | 1999-2017*Partial control: restriction of chemical substances depleting ozone layer(G/TBT/N/MKD/6)**(G/TBT/NOTIF.99/37)* | - | - | - |
| Zambia | 1995-2003 | 2004-2017*Partial control: safety requirements for paints & varnishes(G/TBT/N/ZMB/3)* | - | - | - |
| Bangladesh | 1995-2017 | - | - | - | - |
| Barbados | 1995-2017 | - | - | - | - |
| Belize | 1995-2017 | - | - | - | - |
| Benin | 1995-2017 | - | - | - | - |
| Botswana | 1995-2017 | - | - | - | - |
| Burkina Faso | 1995-2017 | - | - | - | - |
| Côte d'Ivoire | 1995-2017 | - | - | - | - |
| Gambia | 1995-2017 | - | - | - | - |
| Hong Kong | 1995-2017 | - | - | - | - |
| Madagascar | 1995-2017 | - | - | - | - |
| Malawi | 1995-2017 | - | - | - | - |
| Mauritius | 1995-2017 | - | - | - | - |
| Namibia | 1995-2017 | - | - | - | - |
| Niger | 1995-2017 | - | - | - | - |
| Nigeria | 1995-2017 | - | - | - | - |
| Senegal | 1995-2017 | - | - | - | - |
| Seychelles | 1995-2017 | - | - | - | - |
| Suriname | 1995-2017 | - | - | - | - |
| Togo | 1995-2017 | - | - | - | - |
| Tunisia | 1995-2017 | - | - | - | - |
| *Source*: WTO TBT Information Management System (IMS) |

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| Supplementary material 2. STCs raised by 30 WTO member countries *vis-à-vis* the REACH |
| Country | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | Total |
| Australia | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 32 |
| United States | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 31 |
| China | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 27 |
| Japan | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Canada | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 23 |
| Chile | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Thailand | 2 | 3 | 0 | 0 | 1 | 3 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 19 |
| Argentina | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 15 |
| South Korea | 3 | 2 | 2 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Mexico | 2 | 3 | 3 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Brazil | 2 | 2 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 12 |
| India | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 11 |
| Taiwan | 2 | 3 | 0 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Philippines | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 8 |
| Malaysia | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Colombia | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Uruguay | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Egypt | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| El Salvador | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Indonesia | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 3 |
| Russia | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| South Africa | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Singapore | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Saudi Arabia | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Israel | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| Bolivia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Botswana | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Costa Rica | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Dominican Republic | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Switzerland | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 28 | 41 | 23 | 20 | 26 | 43 | 32 | 31 | 23 | 12 | 14 | 7 | 0 | 3 | 1 | 304 |
| *Source*: WTO TBT Information Management System (WTO TBT IMS) |

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| Supplementary material 3. Starting year of the UN GHS adoption: 37 WTO member countries |
| Year | Country (total 37) |
| 2001 | Brazil, New Zealand, Zambia |
| 2002 | South Africa |
| 2003 | South Korea |
| 2004 | Madagascar, Mauritius, Philippines, Thailand, United States |
| 2005 | Bolivia, Colombia, Ecuador, Gambia, Indonesia, Nigeria, Peru, Senegal, Singapore, Uruguay |
| 2006 | Argentina, Japan, Switzerland |
| 2007 | China, Taiwan |
| 2008 | Canada, Chile |
| 2009 | Russia |
| 2011 | Australia, Mexico |
| 2013 | Guatemala, Israel, Malaysia |
| 2014 | Jamaica |
| 2015 | Albania, Kyrgyzstan, Turkey |
| *Source*: United Nations Economic Commission for Europe (UNECE), WTO TBT IMS |