

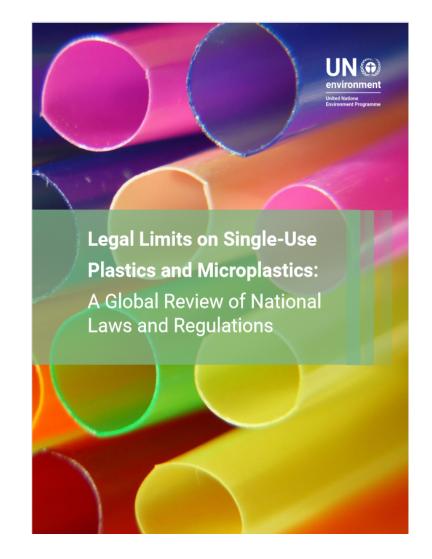
Legal Limits on Single-Use Plastics and Microplastics:
A Global Review of National Laws and Regulations

Key Findings

Legal Limits on Single-Use Plastics and Microplastics: A Global Review of National Laws and Regulations

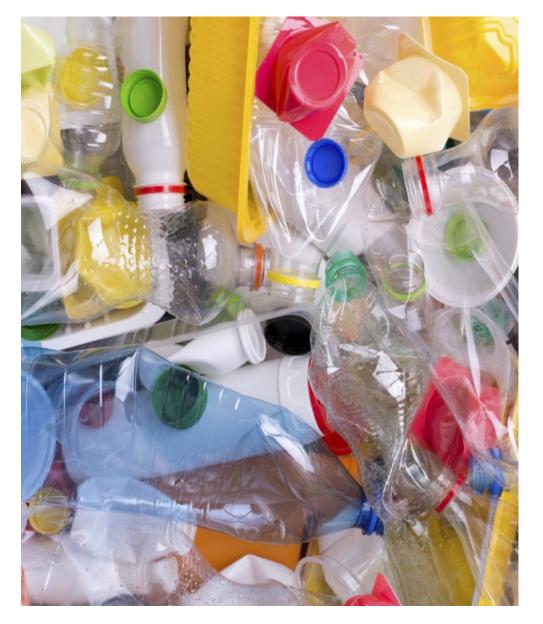
This report provides the first global review of existing national laws and regulations that limit the manufacture, import, sale, use and disposal of:

- 1) Plastic bags;
- 2) Other selected single-use plastics, including bottles, cups, straws and cutlery; and
- 3) Microbeads.

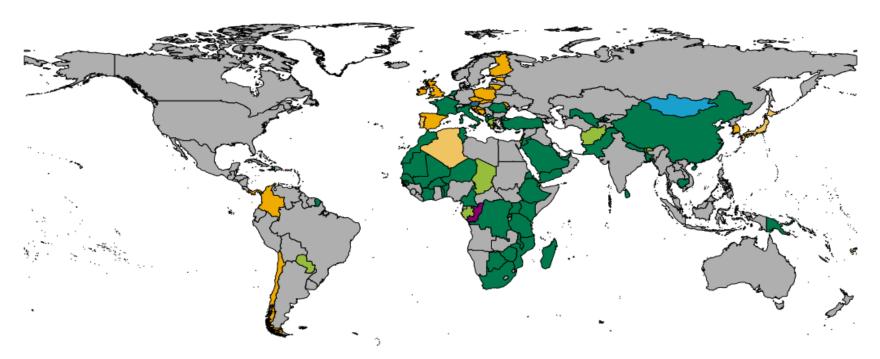




A Few Facts on Single-Use Plastics



- Plastic bags have been described as the world's number one consumer item.
- Plastic packaging is mostly single-use, especially in business-to-consumer applications, and a majority of it is discarded the same year it is produced.
- In 2015, plastic packaging waste accounted for 47% of the plastic waste generated globally, with half of that appearing to come from Asia.
- While China remains the largest worldwide generator of plastic packaging waste, the USA is the largest generator of plastic packaging waste on a per-capita basis, followed by Japan and the EU.



Plastic Bags

No Data

No Ban

Ban on Manufacture

Ban on Manufacture and Free Distribution

Ban on Manufacture, Free Distribution and Import

Ban on Free Distribution and Import

Ban on Free Distribution

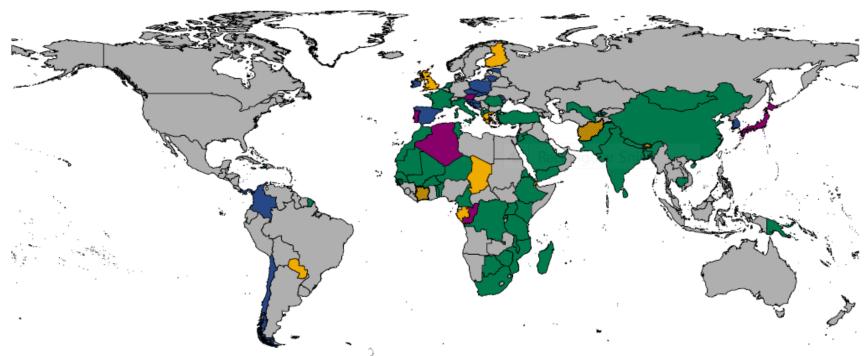
Ban on Import

Ban on Manufacture and Import

Plastic Bags Finding #1

As of July 2018, 127 out of 192 countries reviewed (about 66%) have adopted some form of legislation to regulate plastic bags





Plastic Bags Finding #2

The most common form of regulation is the ban on free retail distribution, which 83 countries have adopted.

Manufacturing and import bans follow, with 61 countries having adopted this form of regulation

Plastic Bags



No Data

No total or partial ban

Partial Ban on Manufacture or Import or Both

Partial Ban on Free Retail Distribution

Partial Ban on Free Retail Distribution and Import

Partial Ban on Manufacture, Free Retail Distribution, and Import



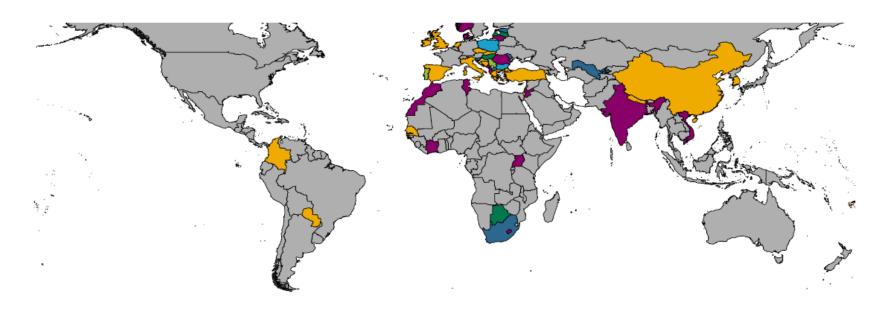


Plastic Bags Finding #3

Manufacturing and import regulations include governing the **thickness** and material **composition** of allowable plastic bags.

38 countries regulate the **thickness** of plastic bags. Thickness requirements vary between 15 and 100 microns.

41 countries have instituted some form of regulation on the material composition of plastics bags. Of these countries, 38 imposed bans or phase-outs non-biodegradable plastic bags, or incentivized the production, import, or use of biodegradable and/or compostable bags. 2 countries have required a certain type of recycled material.



Plastic Bags

No Data

No tax on customer or retailer on distribution or manufacture

Tax on manufacture of plastic bags

Tax on distribution of plastic bags

Tax on manufacture and distribution of plastic bags

Fee on the distribution of plastic bags to end-users

Fee on the distribution of plastic bags to end-users and tax on distribution

Fee on the distribution of plastic bags to end-user and tax on manufacture

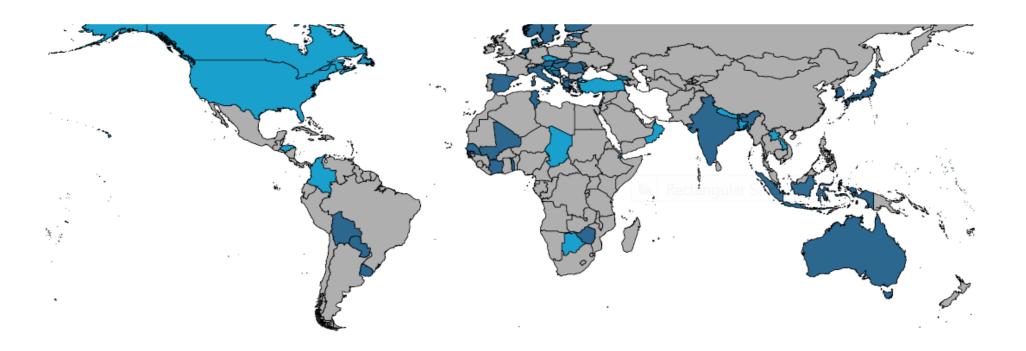
Fee on the distribution of plastic bags to end-users, tax on manufacture and distribution



Plastic Bags Finding #4

Only 27 countries have instituted taxes on the manufacture and production of plastic bags while 30 charge consumers fees for plastic bags at the national level.





Plastic Bags Finding #5

43 countries have included elements of extended producer responsibility related to plastic bags within legislation

Plastic Bags



No Extended Producer Responsbility or special regulations on return or disposal

Special regulations on return, or disposal only

EPR and special regulation on return or disposal



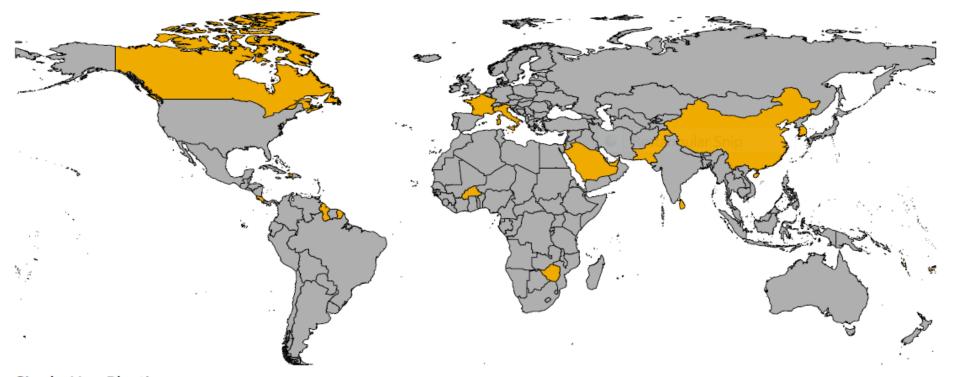


Plastic Bags Finding #6

51 countries have adopted legislative requirements to implement recycling targets relevant for plastic bags.

For example, the **EU** has a target for 55% of all plastic to be recycled by 2030 and for member states to reduce the use of bags per person from 90 a year to 40 by 2026.





Single Use Plastics

No Data

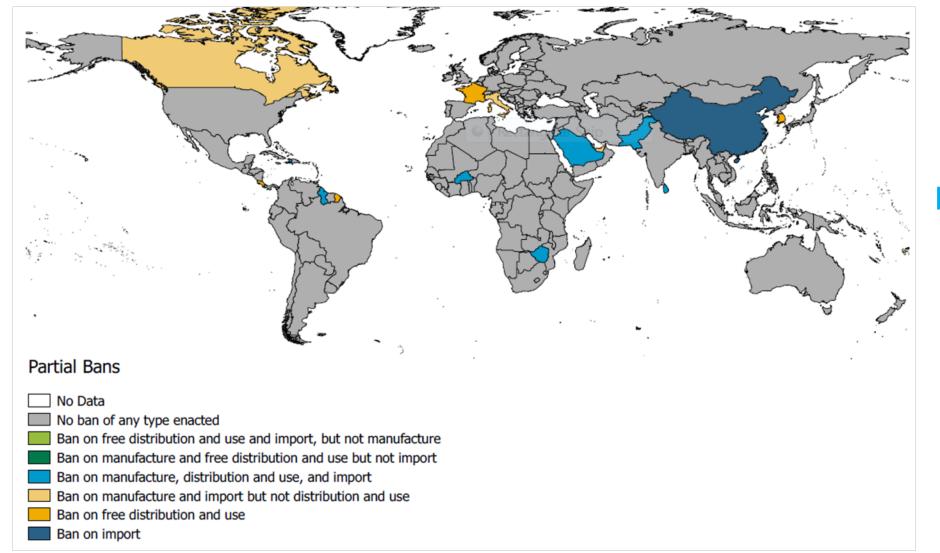
No bans of any type enacted

Ban on manufacture, import, free distribution, and/or use of single-use plastics enacted

Single-Use Plastics Finding #1

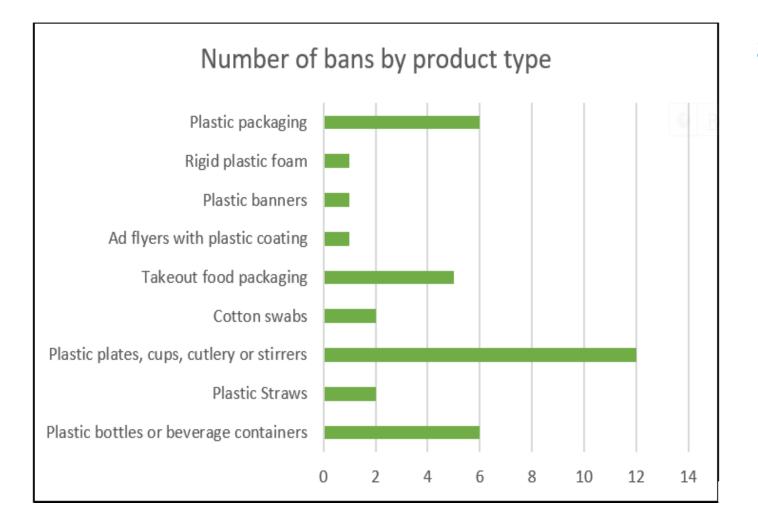
enacted legislation banning either specific products (e.g. plates, cups, straws, packaging), or materials (e.g. polystyrene) or production levels





None of these bans are "total". In other words, exceptions exist for certain products or materials, such as for so-called biodegradable plastics.



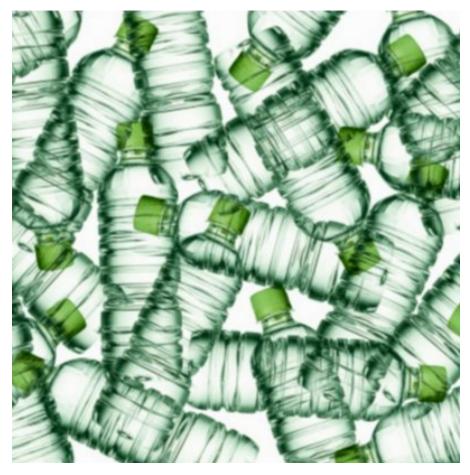


Small Island States have been disproportionately more likely to enact bans on single-use plastics—37% (10 countries) of national bans have come from these countries.

Bans on specific products most commonly focused on those associated with food service and delivery—a common disposable.

12 countries target plates, cups, stirrers, and/or utensils while five target takeout containers and 6 target plastic bottles and beverage containers.

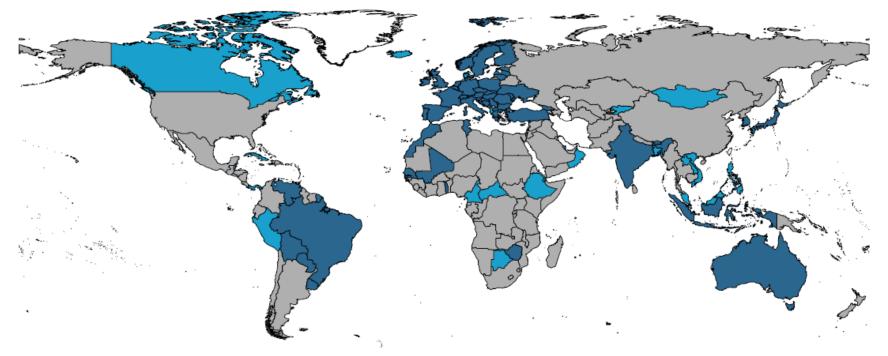




29 countries have enacted some type of tax on single-use plastics, either as a special environmental tax, waste disposal fees or charges, or in the form of higher excise taxes for single-use plastics.

Europe has 17 countries that tax single-use plastics, more than any other region. 5 countries in Latin America and the Caribbean, 4 in Africa, and 3 in Asia and the Pacific, impose some form of tax.





Single Use

No Data

Countries no extended producer responsibility (EPR) or recycling mandates that include single-use plastic items

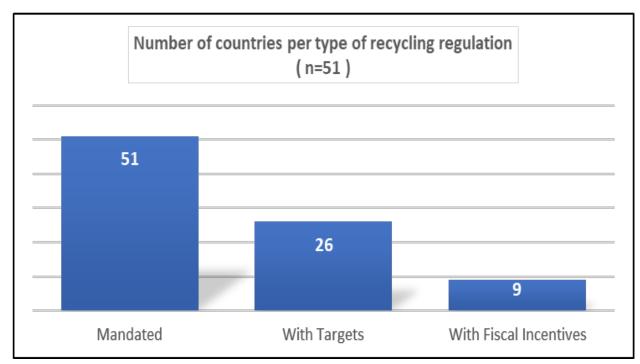
Countries with recycling mandates that include single-use plastic items but no EPR

Countries with EPR for the return, collection, or disposal of single-use plastic items

Single-Use Plastics Finding #5

63 countries have enacted Extended Producer Responsibility measures, such as product takeback schemes, depositrefund, and waste collection and takeback guarantees.

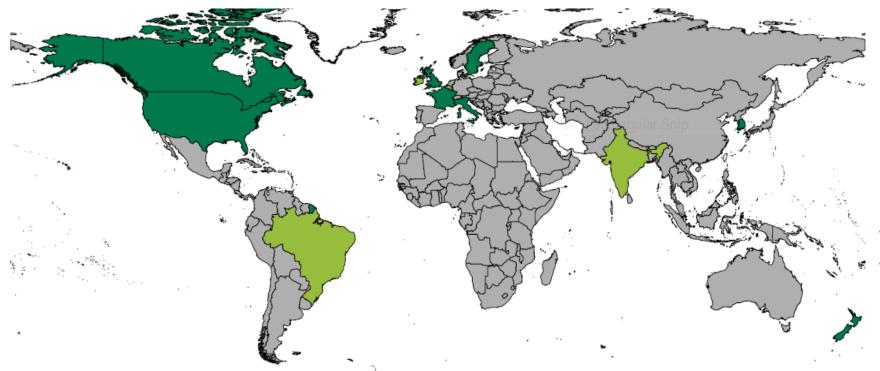




The most common legal measures for postconsumer use disposal for single use plastics are recycling requirements and solid waste management laws which may implicitly include single-use plastics under household or commercial waste or explicitly set targets for plastics.

51 countries were found to have explicit regulatory mandates regarding recycling beyond general policy objectives. Of the 51 countries, **26 countries** include specific recycling targets. **9 countries** provided fiscal incentives to promote recycling activities.

environment



Microbeads Finding #1

Definition: Man made plastic particles intentionally added to consumer products, typically less than or equal to 5 mm in size.

Microbeads can vary in chemical composition, size, share and density.

As of July 2018,
8 out of 192 countries
worldwide (4%) have
established legally binding
bans of microbeads
through national laws or
regulations.

environment

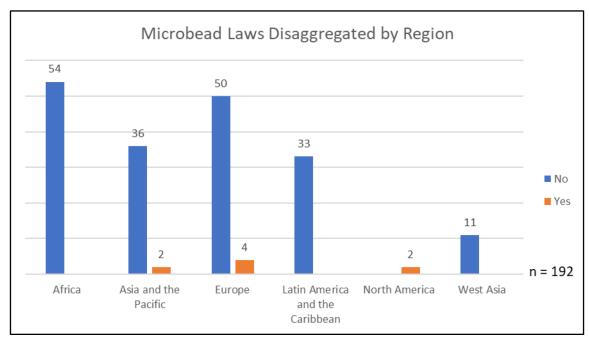
Microbeads

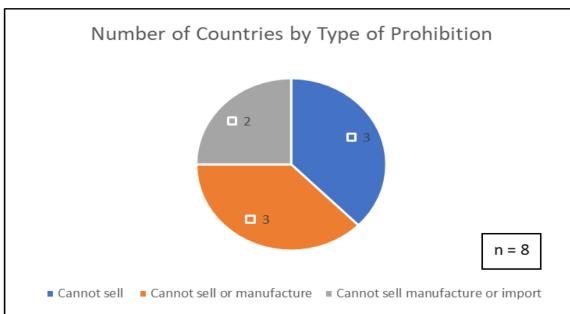
No Data

No Ban/Data Not Found

New Law Proposed

Partial Ban





Microbeads Finding #2

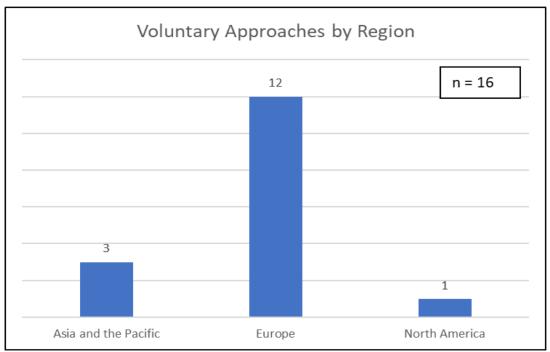
7 out of 8 of the countries with laws or regulations controlling the use and/or manufacture of microbeads include only a subset of personal care products documented to contain microbeads.

Microbeads Finding #3

The laws and regulations used to control microbeads share a number of similarities in definition of microbead, product types covered, and the size of microbead controlled; however, there are also important differences (size, specificity of plastic particles, type of products or water solubility).



Number of Countries by Type of Voluntary Approach n = 16 Government and industry sector agreements for voluntary phase-out action Individual company and/or trade association voluntary industry phase-out actions ■ Government statements of support for a phase-out or ban of microbeads Ecolabeling



Microbead Finding #4

As at July 2018, **4 countries** (Belgium, Brazil, India, and Ireland) and the EU have proposed new laws or regulations banning microbeads at the national level.

Microbead Finding #5

Governments, companies, and civil society organizations are utilizing a range of voluntary approaches to reduce the number of products containing microbeads. These include government and industry agreements, industry and company specific voluntary phaseouts, regional government statements of support, and ecolabeling.



Conclusions on Plastic Bags:

- Plastic bags bans in most countries do not cover the life-cycle of plastics bags manufacture and production, use and distribution as well as trade.
- Partial bans exist both related to material content and thickness in most countries.
- Even within countries that more strictly regulate plastic bags several exemptions exist to this requirement.
- Very few countries include expansive tax controls or other incentives to manufacture bags with more renewable materials or incentives for customers to use these bags or promote awareness of their importance.
- Targets that mandate recycling rates within legislation vary widely and while some important regional and country level examples exist there is not a predominant approach to include consumer level restrictions or percentage production reductions in use over time in many countries.



Conclusions on Single Use Plastics:

- Bans on single-use plastics have increased rapidly in recent years (since 2012);
- However, most common regulatory instruments remain extended producer responsibility, taxes and fees, and recycling rules to reduce demand or manage disposal;
- Roughly half of the bans cover all stages of commerce of single-use plastics—from production to distribution, import and use, while the rest focus on specific aspects;
- Countries have primarily targeted products in the **food service industry**, as well as **plastic packaging**.



Conclusions on Microbeads:

- To date, eight countries have passed laws or regulations at the national level while four, plus the EU, are in the process of passing new laws or regulations.
- This suggests that, to date, **few countries** have taken legal action to prohibit the use of plastic microbeads in products;
- The **scope** of products and **specificity** of terms used to describe the products covered under the law also **vary**;
- Countries have prioritized personal care products for bans and have not used national legislation to prohibit the use of microbeads in other types of cleaning or industrial products.
- At least 14 countries have utilized voluntary approaches rather than laws at the country level to encourage the elimination of microbeads in personal care products.
- Beyond individual country actions, multinational companies, trade associations, and regional government bodies have all taken voluntary initiatives to spur the phase out of microbead-containing cosmetic and personal care products across the globe.





The report is available on UN Environment website at https://wedocs.unep.org/

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