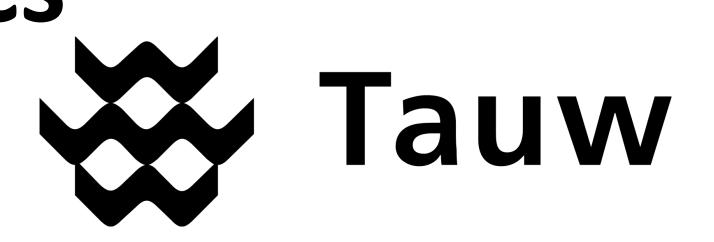
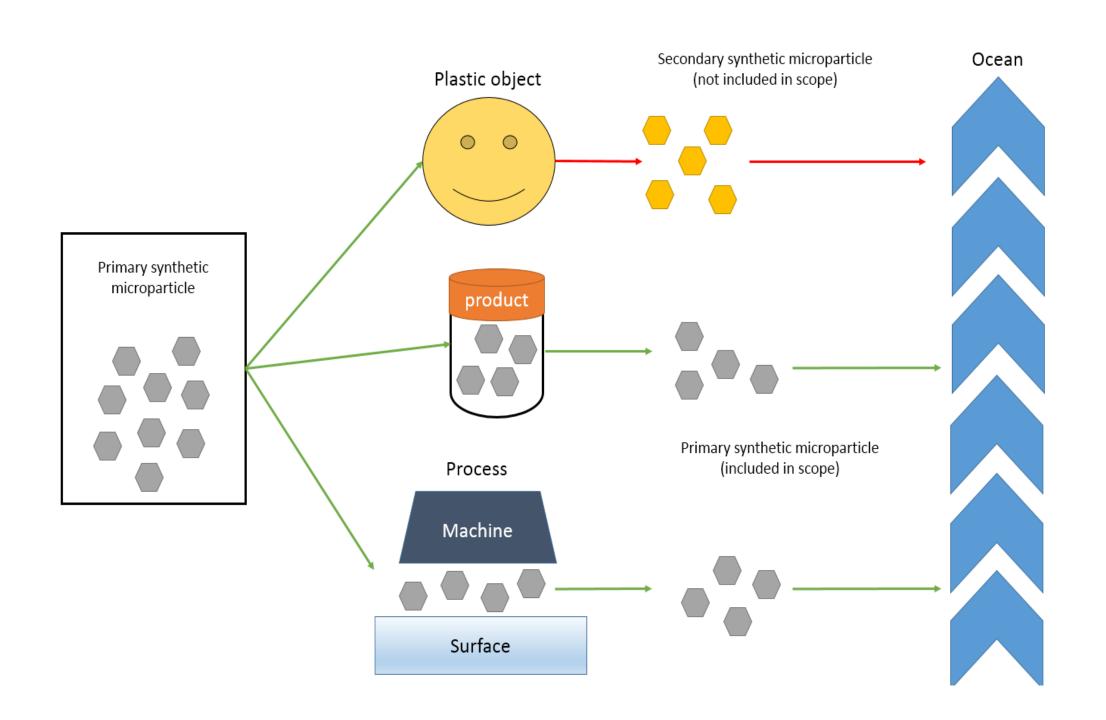
Self-test on primary microplastics





In order to promote the reduction of synthetic microparticles discharge into the environment, the Belgian federal government has ordered the design of a test to assess and prevent the emission of primary synthetic microplastics. The test has been developed by environmental consultancy agency TAUW and is intended for use by companies. The test can be easily adapted for other use: for voluntary screening of the market by branch organisations, for integration within standardisation framework or as a reporting tool within a mandatory context.

Primary synthetic microparticles



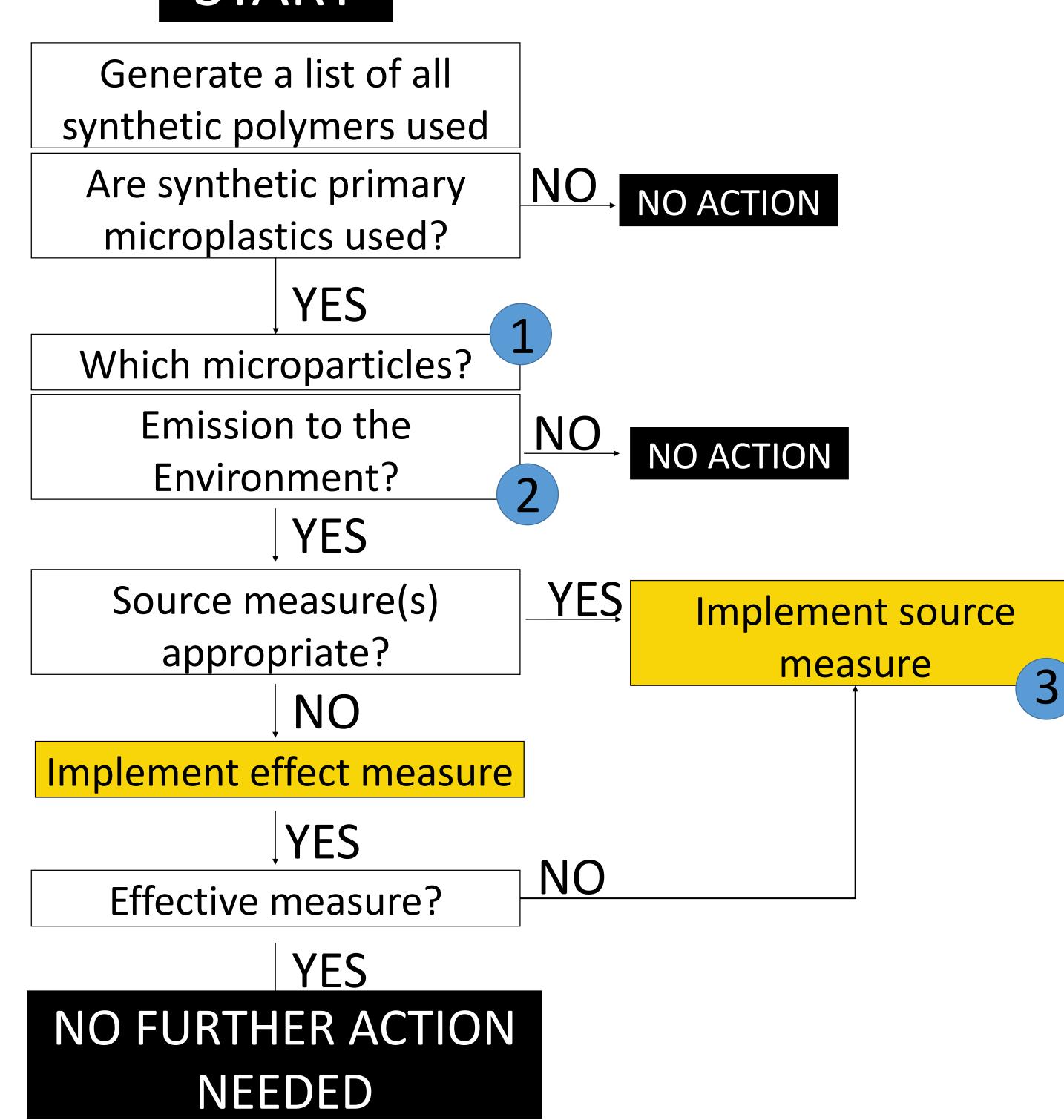
MANUAL INCLUDES:

- A definition of the scope
- A list of most commonly used synthetic polymers and their application
- A description of the emissions of several products in the user phase and the end of life phase
- A list of alternatives for synthetic microparticles
- Emission reducing measures or end of pipe techniques

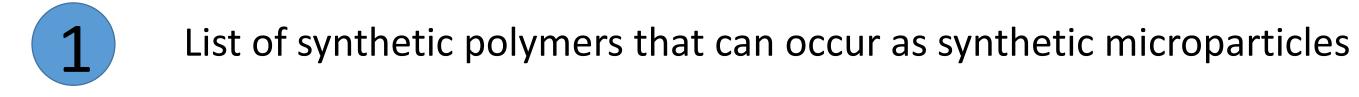
FOR:

- -Producers of plastic granulates, rubber granulates, cosmetics, paint, glue, varnish, food, medicine
- -Sectors who use abrasive cleaning or blasting with plastic
- -Sectors who use products that contain microplastics
- -Sectors who use microplastics as tracers in the production process





ALSO INCLUDED:

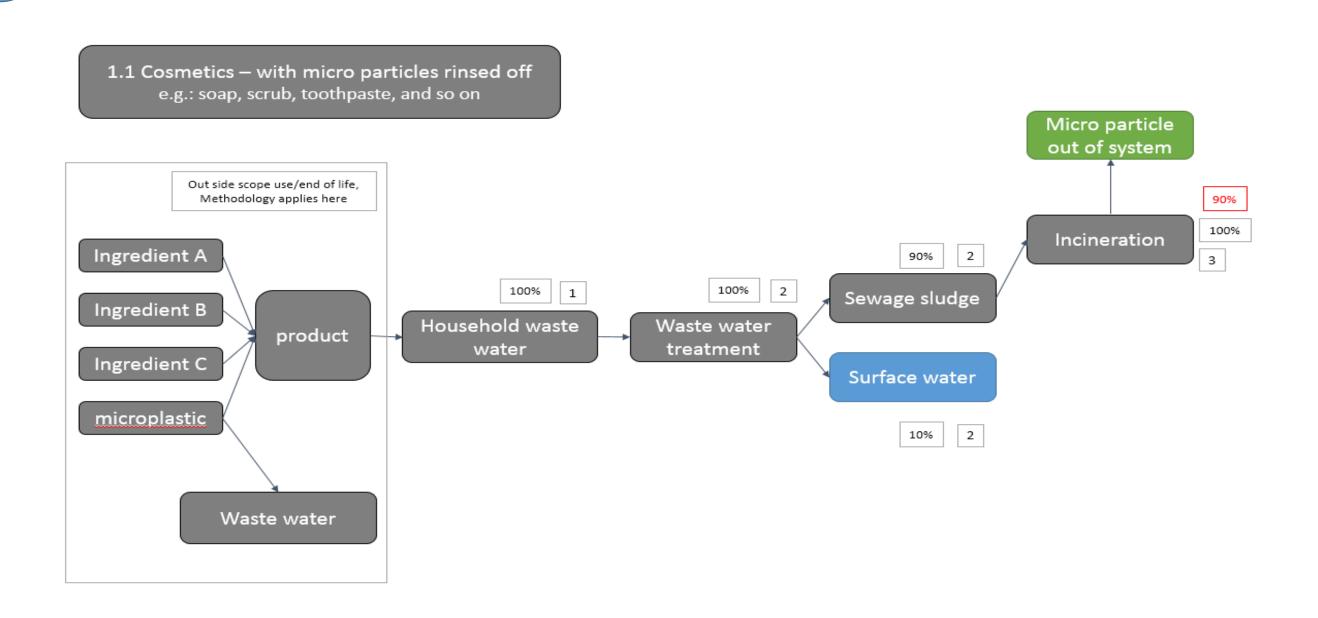


Prefix	Repeating unit	Abb.	Application	Possible function
Poly	1,4-cis-Isoprene	-	Rubber	Natural rubber
Poly	2-hydroxyethyl methacrylate	HEMA	Paint, drugs	Drug delivery
Poly	2-hydroxypropyl methacrylate	НРМА	Paint, drugs	Drug delivery
Poly	Acrylate	PA	Cosmetics	Viscosity controlling

List of alternatives to synthetic microparticles

Alternatives	Application	Replaces
Walnut shell	Industrial (abrasive blasting)	Polyethylene/Polypropylene
Cherry stone	Industrial (abrasive blasting)	Polyethylene/Polypropylene
Silica	Viscosity controlling	
Talc	lubricant, carrier, thickener, strengthening filler, smooth filler, adsorbent	
Clay	Paints (Reology modifier) filler	Polyurethanes, styrene, PVA

Emission of synthetic microparticles to the environment in use phase and end-of-life phase



Any questions or suggestions?
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