

#### TRANSLATION:

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## CO<sub>2</sub> balance: dishwashing detergent

The CO<sub>2</sub> balance shows which dishwashing detergent is most climate friendly. The following dishwashing detergents were analysed:



#### Handymatic powder sachet

##### Phosphate-free

Standard dosage:  
20g; washing  
temperature 45°C

#### Handymatic Supreme All in One powder

Standard dosage:  
27g; washing  
temperature 55°C

#### M-Budget Tabs

Standard dosage:  
20g; washing  
temperature 55°C

#### Handymatic Classic Tabs

Standard dosage:  
20g; washing  
temperature 55°C

#### Handymatic Classic powder

Standard dosage:  
30g; washing  
temperature 55°C

- When using Handymatic Classic Tabs or Handymatic Classic powder, rinse aid und dishwasher salt is necessary additionally.

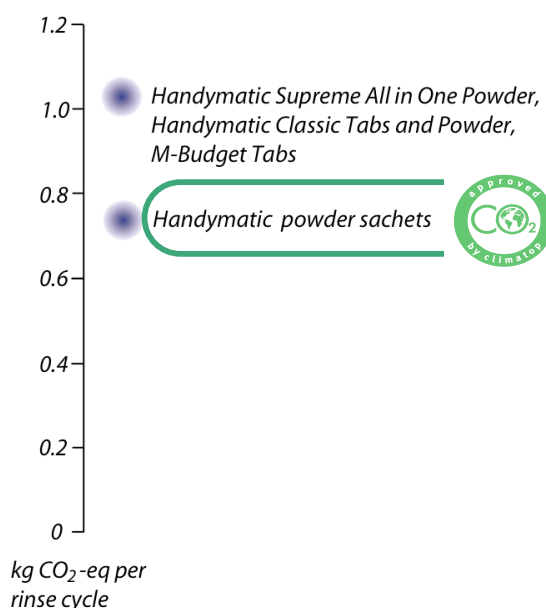
### The comparison

To compare the climate impact of the different dishwashing detergents, the following comparison unit was chosen:

Washing dirty dishes in one rinse cycle using the recommended washing programme. The greenhouse gas emissions were summed up over the whole life cycle of the dishwashing detergents, e.g. from the supply of the detergent substances, to the transportation, the production at the production site, the dishwashing itself, to the disposal of the packaging and the waste water sewage.

### The results

The product comparison shows that using Handymatic powder sachets is most climate friendly. Its climate charge is about 25% lower than the climate charge of the other



dishwashing detergents. The main reason for the good climate balance of Handymatic powder sachets is the low washing temperature.

### **Climate friendly dishwashing**

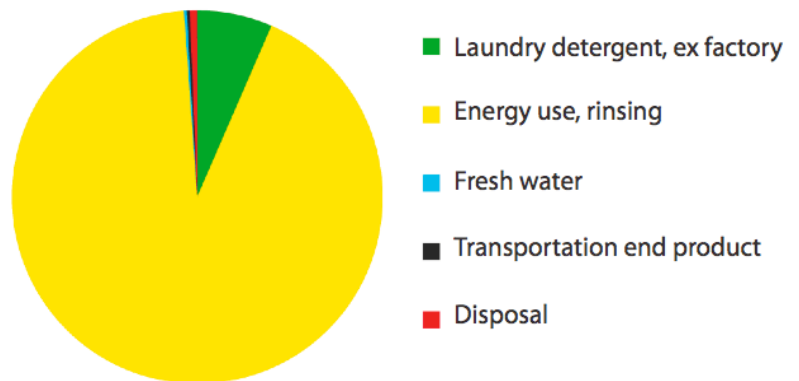
Climate friendly dishwashing is more than choosing the right dishwashing detergent:

- Don't do things by halves: fill your dishwasher completely
- Arrange the dishes in the dishwasher according to the instructions in the user manual. So the water can circulate optimally.
- You do not have to pre-rinse the dishes. Just remove left over food with used cutlery.

Only buy new dishwashers with energy efficiency class A+.

The following pie chart shows where the major climate impact of a rinse cycle occurs. The example rinse cycle uses Handymatic powder sachets and a washing temperature of 45°C.

The major impact (>73%) is caused by the energy use of the rinse cycle.



About 7% of the climate impact is caused by the production of the dishwashing detergents. The provision of fresh water, the wastewater treatment as well as the transportation only cause a minor part of the climate charge of a rinse cycle.

Validity of the factsheet: until 1.1.2012

Climatop / 18.03.2010