

# PowerBooster® TPA

High-quality cleaning booster and cleaner refresher / bath life time extender with light corrosion protection

Part No. 091608-CN10 // Inhalt: 10l

## CLEANING TECHNOLOGY

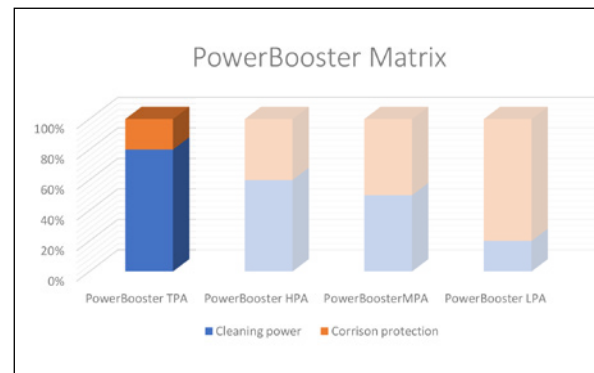
Made in Germany



### Application overview

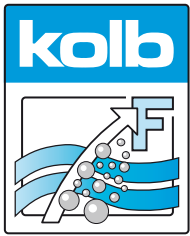
PowerBooster® TPA is an additive for **kolb** detergents with highest cleaning power boost. The additive can be used both to quickly and thoroughly clean heavily contaminated, less sensitive parts and / or to be added as a refresher to degrading cleaners.

PowerBooster® TPA contains approx. 20% corrosion protection. Depending on the sensitivity and metal content of the items to be cleaned, it may be more suitable or beneficial to use another product from the PowerBooster®-series (see table on the right).



Technical data	
Color	tansparent
Odor	neutral
pH-value at 20 °C	14
Initial boiling point and range	not determined
Flash point	not determined
Density at 20 °C	1,11 cm <sup>3</sup>
Water solubility	easily soluble
Viscosity (kin.) at 40 °C	not applicable
Application	diluted
Application temperature	20 - 45 °C
Storing frost-free	in original container
EWC key number	060204
CLP / GHS	GHS 05
<p>PowerBooster® TPA is a high-quality detergent booster and cleaner-refresher with 20% corrosion protection. The cleaner additive is suitable for almost all alkaline cleaning media and can be applied in immersion, spray and ultrasonic systems.</p> <p>Not suitable for direct mixing with concentrates.</p>	

Mixing table	
ContraFlux® Basic	bis 1 %
ContraFlux® FM	n.a.
MultiEx® 3D Serie	n.a.
MultiEx® VR Serie	bis 1 %
MultiEx® N Typen	bis 1 %
MultiEx® A12	bis 5 %
MultiEx® B11	bis 5 %
MultiEx® GC	n.a.
MultiEx® Rapid	bis 2 %
<p><b>Note:</b> The spreadsheet only shows a general overview of the product specifications.</p> <p>Cleaning tests are reasonable to determine the optimum cleaner / additive configuration. Such tests may be carried out directly at the <b>kolb</b> demonstration centers in Willich / Germany or Shanghai / China or can be initiated by contacting your local <b>kolb</b> partner.</p>	



# PowerBooster® HPA

High-quality cleaning booster and cleaner refresher / bath life time extender with medium corrosion protection

Part No. 091668-CN10 // Inhalt: 10l

## CLEANING TECHNOLOGY

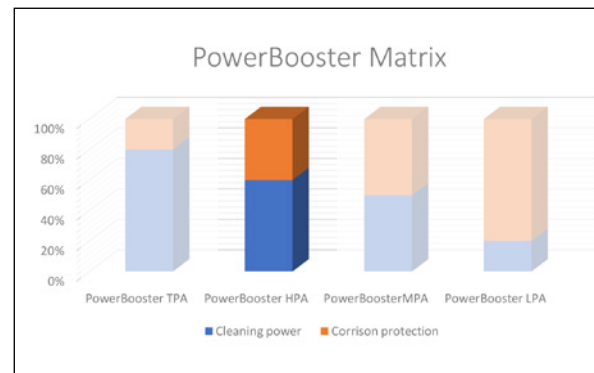
Made in Germany



### Application overview

PowerBooster® HPA is an additive for **kolb** detergents with a strong cleaning power boost. The additive can be used both to quickly and thoroughly clean contaminated, less sensitive parts and / or to be added as a refresher to degrading cleaners.

PowerBooster® HPA contains approx. 40% corrosion protection. Depending on the sensitivity and metal content of the items to be cleaned, it may be more suitable or beneficial to use another product from the PowerBooster®-series (see table on the right).



Technical data	
Color	light yellow
Odor	amine
pH-value at 20 °C	11,1 10g / l
Initial boiling point and range	158 - 160 °C
Melting point	-2 °C
Ignition temperature	335 °C DIN 51794
Density at 20 °C	0,962 g / cm <sup>3</sup>
Water solubility	fully soluble
Application	diluted
Application temperature	20 - 45 °C
Storing frost-free	in original container
EWC key number	070601
CLP / GHS	GHS 05, GHS 07
<p>PowerBooster® HPA is a high-quality detergent booster / cleaner-refresher with medium corrosion protection. The cleaner additive is suitable for almost all alkaline cleaning media and can be applied in immersion, spray and ultrasonic systems.</p> <p>Not suitable for direct mixing with concentrates.</p>	

Mixing table	
ContraFlux® Basic	n.a.
ContraFlux® FM	up to 5 %.
MultiEx® 3D Serie	up to 8 %
MultiEx® VR Serie	up to 5 %
MultiEx® N Typen	up to 10 %
MultiEx® A12	up to 10 %
MultiEx® B11	up to 10 %
MultiEx® GC	up to 50 %
MultiEx® Rapid	up to 6 %
<p><b>Note:</b> The spreadsheet only shows a general overview of the product specifications.</p> <p>Cleaning tests are reasonable to determine the optimum cleaner / additive configuration. Such tests may be carried out directly at the <b>kolb</b> demonstration centers in Willich / Germany or Shanghai / China or can be initiated by contacting your local <b>kolb</b> partner.</p>	



# PowerBooster® MPA

High-quality cleaning booster and cleaner refresher / bath life time extender with 50 % corrosion protection

Part No. 090605-CN10 // Inhalt: 10l

## CLEANING TECHNOLOGY

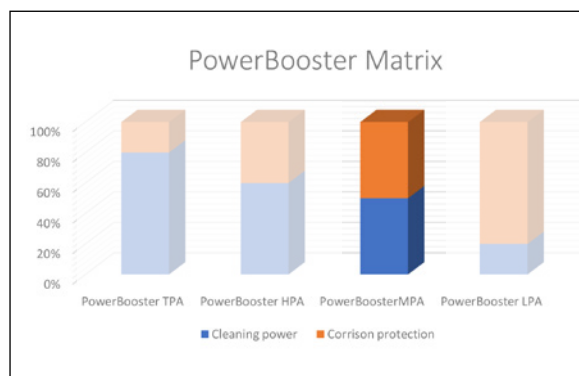
Made in Germany



### Application overview

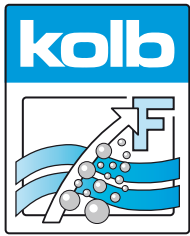
PowerBooster® MPA is an additive for kolb detergents with an evenly balanced boost of cleaning power and / or refreshing to degrading cleaners and corrosion protection

PowerBooster® MPA contains approx. 50 % cleaning enhancer and 50% corrosion protection. Depending on the sensitivity respectively robustness and metal content of the items to be cleaned, it may be more suitable or beneficial to use another product from the PowerBooster®-series (see table on the right).



Technical data	
Color	tansparent-yellow
Odor	amine
pH-value at 20 °C	12,5
Initial boiling point and range	110 - 135 °C
Ignition temperature	> 300 °C
Vapour pressure	10 - 20 hPa
Density at 20 °C	1,0 g / cm <sup>3</sup>
Water solubility	easily soluble
Viscosity (dyn.) at 20 °C	> 30 mPa s
Application	diluted
Application temperature	20 - 45 °C
Storing frost-free	in original container
EWC key number	070699
CLP / GHS	GHS 05, GHS 07
<p>PowerBooster® MPA is a high-quality, evenly balanced detergent booster / cleaner-refresher and corrosion protection. The cleaner additive is suitable for almost all alkaline cleaning media and is applicable in inmimmersion, spray and ultrasonic systems.</p> <p>Not suitable for direct mixing with concentrates</p>	

Mixing table	
ContraFlux® Basic	up to 4 %
ContraFlux® FM	up to 8 %
MultiEx® 3D Serie	up to 10 %
MultiEx® VR Serie	up to 5 %
MultiEx® N Typen	up to 10 %
MultiEx® A12	up to 10 %
MultiEx® B11	up to 12 %
MultiEx® GC	up to 50 %
MultiEx® Rapid	up to 6 %
<p><b>Note:</b> The spreadsheet only shows a general overview of the product specifications.</p> <p>Cleaning tests are reasonable to determine the optimum cleaner / additive configuration. Such tests may be carried out directly at the kolb demonstration centers in Willich / Germany or Shanghai / China or can be initiated by contacting your local kolb partner.</p>	



## PowerBooster® LPA

High corrosion protection with high-quality, light cleaning boosting and cleaner refreshing / bath life time extending

Part No. 091606-CN10 // Inhalt: 10l

## CLEANING TECHNOLOGY

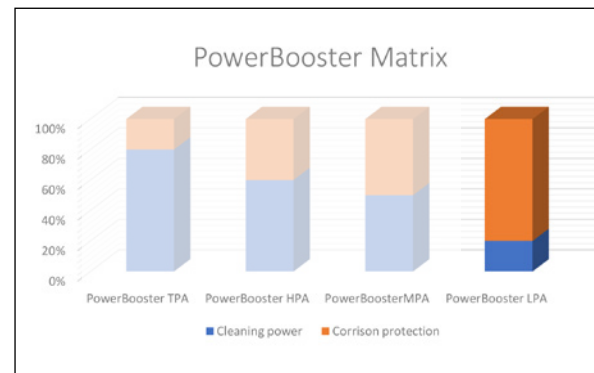
Made in Germany



### Application overview

PowerBooster® LPA is an additive for **kolb** detergents with strong corrosive protection and a light cleaning power boost. The additive can be used both to quickly and thoroughly clean sensitive parts and / or to be added as a refresher to degrading cleaners.

PowerBooster® LPA contains approx. 80% corrosion protection. Depending on the sensitivity and metal content of the items to be cleaned, it may be more suitable or beneficial to use another product from the PowerBooster®-series (see table on the right).



### Technical data

Color	light yellow
Odor	amine
pH-value at 20 °C	11,0 - 11,3
Initial boiling point and range	100 - 140 °C
Melting point	< 10 °C
Ignition temperature	not relevant
Density at 20 °C	1,01 - 1,04 g / cm <sup>3</sup>
Viscosity (dyn.) at 40 °C	8 - 200 mPa s
Water solubility	easily soluble
Application	diluted
Application temperature	20 - 45 °C
Storing frost-free	in original container
EWC key number	070601
CLP / GHS	GHS07

PowerBooster® LPA is a high-quality, strong corrosive protection with light detergent power boosting. The cleaner additive is suitable for almost all alkaline cleaning media and can be applied in immersion, spray and ultrasonic systems.

Not suitable for direct mixing with concentrates

### Mixing table

ContraFlux® Basic	up to 6 %.
ContraFlux® FM	up to 10 %.
MultiEx® 3D Serie	up to 10 %
MultiEx® VR Serie	up to 8 %
MultiEx® N Typen	up to 20 %
MultiEx® A12	up to 15 %
MultiEx® B11	up to 20 %
MultiEx® GC	up to 50 %
MultiEx® Rapid	up to 10 %

**Note:** The spreadsheet only shows a general overview of the product specifications.

Cleaning tests are reasonable to determine the optimum cleaner / additive configuration. Such tests may be carried out directly at the **kolb** demonstration centers in Willich / Germany or Shanghai / China or can be initiated by contacting your local **kolb** partner.