



...das wirkt!

Tank interior and container cleaning

Complete solutions for greater efficiency





Tank interior and container cleaning is accompanied by extensive requirements

Empty tanks present many challenges

A tank is not a disposable product. It is filled and emptied many times during its lifecycle and in between subjected time and again to thorough cleaning procedures. Over time, the effort and expense for maintenance and care becomes a major cost factor. Efficient cleaning agents and procedures not only help save costs with tank interior cleaning but potentially also extend the service life considerably.

Finding economically clean solutions

For freight companies, the economic loss of utilisation due to idle times during maintenance and care constitute a significant cost factor because the cleaning tasks already require intensive use of time and personnel.

This is exactly the area where costs can be significantly reduced because the loop of cleaning mechanism and cleaning time can be increasingly shortened as the factor of more powerful cleaning chemicals increases.

Solutions by Caramba come into play exactly at this point. We do not consider a cleaning agent to be a fixed component but rather a variable means adapted to the respective cleaning process. The result of this approach is not insignificant. This is especially true when observing it over the lifecycle of the tank.



Package solution instead of cleaning solution



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The target: Process optimisation

We take a comprehensive look at things and offer our customers more than just the product as solution. The first step is becoming very familiar with the details of the respective processes, followed by developing custom solutions based on this knowledge, which we then implement in the existing processes.

Caramba application engineering

Concretely, experienced application engineers analyse the process and issues on site. The focus, at this, is not only on the chemicals used but also on all preceding and subsequent steps and framework conditions – including the issues of waste water and water treatment, very

important in the overall process. This comprehensive view is the basis for the further work of our developers who develop the optimal solution for the present scenario at the company's own three laboratories.

Extensive test runs on site accompany final implementation – adjustments can therefore be made shortly to ensure the best possible success of process conversion.

Supportive training for the employees of our customers, for example, HACCP training in the foodstuff sector, complement the service package.

Following this approach of considering a product as integrated part of a complete chain enables us to make processes more efficient altogether.



Tank interior and container cleaning concentrates

Thanks to their high concentration, our products are economic in their use as well as separation and waste water-friendly.



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Category	Product	Description	Product description		Technical features	Application processes	Application characteristics										Properties				
			pH value (concentrate)	Density (20 °C)			Manual application	Swivel and circulation processes	Food residues	Chemical raw and auxiliary materials	Bulk material and granulates	Mineral contamination (limestone, rust, cement, copper, overhead line abrasion)	Discolouration, protein residues	Latex and polymer residues	Paints, varnishes, resins, adhesives	Oils, greases, soot, wax, soap	Gentle to materials	Compatible to the environment	Foam-reducing	Free from colourants and aromatic substances	Packaging sizes
Alkaline cleaners	TR 1	Universal cleaner for many different transport media	NTA FREE	13.8	1.09	●	●	■	■	■						■	●	●	●	8212610025 8212610080 8212610085	○
	TR 10			13.8	1.21	●	●	■	■	■					■	●	●	●	8212710025 8212710085	○	
Acidic cleaners	TR 3	With increased percentage of phosphoric and sulphuric acid; for tanks from aluminium and stainless steel, suitable for external cleaning		0.1	1.33	●	●			■						●			8212630025 8212630085	○	
	TR 4	Phosphoric, contains corrosion inhibitors		0.2	1.25	●	●			■	■					●	●	●	8212640025 8212640080 8212640085	○	
	TR 5	Suitable only for surfaces insensitive to acids, insensitive to cold and heat, also suitable for external cleaning, contains hydrofluoric acid		2.5	1.05	●	●			■									8212650025 8212650080 8212650085	○	
Latex and polymer dispersion cleaner	TR 6	Cleaning and dissolution of the transport medium: The transport medium is disposed with the waste water treatment.	NTA FREE	13.5	1.07	●									■			●	8212660025 8212660080 8212660085	○	
	TR 6 Spezial			13.5	1.07	●	●									■			●	8212680025 8212680085	○
	TR 16	Same as TR 6 and TR 6 Spezial, but extremely resistant against external influences during application and storage.	NTA FREE	13.8	1.06	●									■			●	8212670025 8212670085	○	
Special cleaner	TR 8	The transport medium is detached in scraps by swelling and softening and can thus be removed from the service water before introduction to waste water treatment.	NTA FREE	13.8	1.12	●	●								■		●	●	●	8212700025 8212700080 8212700085	○
	TR 18			13.8	1.12	●										■		●	●	●	8212800025 8212800085
Special cleaner	TR 7	Alternative to cleaning with solvents, such as acetone	NTA FREE	13.8	1.06	●	●								■				●	8441180025 8441180080 8441180085	○
	TG 22	With NSF certification, free from silicate and phosphate, food-grade, prevents discolouration	NSF	11.3	1.03	●	●	■							■	●			●	8333730025 8333730080 8333730085	○

Moderate soiling
 Stubborn soiling
 Extremely stubborn soiling

25 l > Plastic canister
 210 l > Plastic barrel
 1.000 l > IBC container



The Caramba Effect: the ABC of process optimisation



Results with a method

Standardised products usually do not help when cleaning, modification and protection of material surfaces need to be simplified and improved.

Caramba therefore develops comprehensive, individual process solutions following the ABC method. Employing the triad of Analysis, Best practice consulting and the Caramba effect, we supply our customers with a custom-tailored complete package that increases efficiency and output...

because we believe that first-class product solutions are not only derived at from best raw materials but just as much from solid know-how of procedural technical contexts.

A Analysis and understanding of the process and specific requirements on site

B Best practice consulting, assessment and recommendation of possible solutions

C Caramba Effect: the concrete improvement, matching your individual requirements

Sample application: more cleanliness with less foam



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The situation

A mid-sized business with a workforce of over 60 employees operates a fleet of 43 tractors and 66 tanker trailers. The company has its own shop as well as two washing lanes with four cleaning heads each for cleaning its own fleet.

The problem

With tank interior cleaning, residues in the tanks and problems with the filter system constantly caused delays that jeopardised the provision of the tanker trailers and thus on-time handling of the customer orders.

A Analysis

The analysis by Caramba revealed excessive foam development of the existing cleaner. This caused less sedimentation of the solids in the separator chain and produced insufficient cleaning of the waste water.

B Best advice

The input of the cleaning system manufacturer was solicited during consultation, and after the filter deposits and partial residues on the interior tank surfaces were examined, test runs were performed with different low-foaming products from the Caramba TR series.

C Caramba-Effect

By using the low-foaming Caramba TR 8, the filters were not passed through as quickly, cleaning intervals of filtration are now much longer. The values of the waste water in the CSB value and contamination were significantly reduced.

Product used



TR 8

Alkaline concentrate removes polymer dispersions and latex

pH value (concentrate): approx. 13.8
Density (20°C): 1.12 kg/l

› 25 l › 210 l › 1.000 l

› Removes stubbornly adhering polymer dispersions and latex, the transport medium is detached in scraps by swelling and softening and can thus be removed from the service water before introduction to waste water treatment.

- For use in swivel and circulation processes
- Act foam-reducing
- Compatible to the environment
- Free of aromatic substances
- NTA-free

Tank interior and container cleaning



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Brand of the century

Caramba is a legend... a German brand known by everybody... and this for generations. The success story begins with the ingenious invention of a graphite-containing spray oil called Caramba. It removes rust, lubricates and protects.

Today, entire product ranges can be found under the umbrella of the brand – both for the private user and industry and trade. Top chemical products for cleaning, care and maintenance. for over 110 years.



Cooperation with renowned institutes



Any questions?

Our field service and application consulting are glad to assist you and offer consulting at your facilities.

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Scan the QR Code with a QR Code scanner (App for smartphones and tablets) and you will be immediately directed to the tank interior cleaning products.

