



CHEMICAL PRODUCT SHEET

COMPANY PROFILE

KMU LOFT Cleanwater has been developing comprehensive technical solutions for our customers in the field of process water treatment using vacuum evaporation since 1990.

As an industrial process wastewater specialist, we support our customers with system solutions and the technical know-how worldwide in the realisation of wastewater-free operation.

The chemicals and chemical products offered by KLC are the result of many years of application experience on over 2,800 waste water treatment systems. Special cleaning concentrates and defoamers have been developed and tested in KLC's laboratories and on site at our customers' premises in order to meet all customer requirements in terms of cleaning effect, material compatibility, economical dosing, etc.

Facts / Reference

| | | |
|----------------|--------------------|---|
| MVR System | 2,800 | MVR systems sold |
| | > 30 | Countries with MVR systems in operation |
| Process Waters | > 12,000 | Process waters assessed |
| | > 10,000 | Process waters analyzed in lab |
| Applications | > 260 | Process waters treated with MVR systems |
| | > 30 | Industry segments served with MVR systems |

KLC Operating Supplies

Protect the efficiency and availability of your system and benefit from our long KLC application expertise!

With our customized cleaners, defoamers and additives, you can achieve maximum process stability and optimum operational safety of your vacuum evaporator over many years. Take advantage of the expertise of KLC's two application laboratories to achieve maximum plant efficiency with operating fluids that are precisely tailored to your application.

KLC Chemical

KLC Cleaner



Our KLC special cleaners, which are constantly being further developed in our own application laboratories, guarantee you a cleaning effect and process stability.

All cleaners can be used several times. Our special cleaners are characterized by excellent cleaning results even with highly contaminated wastewater.

KLC Defoamer



When evaporating highly foaming media, defoamers specially adapted to your application are also used to maintain the desired process stability. You benefit from over 25 years of experience of our KLC application specialists.

KLC Additive



Our additives, developed in innovative experimental work, prevent crust formation in the shell-and-tube heat exchanger or corrosion in the rotary blower, even with extremely aggressive media, and thus ensure the operational reliability and service life of your vacuum evaporator.

Products

| Operating Equipment | Properties / Applications | Size |
|---------------------|---|------------------|
| KLC Prowaclean 1 | Special cleaner, acid (*) | 25 kg / 1,400 kg |
| KLC Prowaclean 2-3 | Special cleaner, alkaline (*) | 25 kg / 1,400 kg |
| KLC Prowaclean 6 | Basic cleaner, alkaline, liquid | 25 kg / 1,200 kg |
| KLC Prowaclean 8 | Basic cleaner, acid, liquid | 22 kg / 1,000 kg |
| KLC Prowaclean 9 | Basic cleaner, acid, solid | 20 kg |
| KLC Prowaclean 10 | Basic cleaner, acid, solid | 25 kg |
| KLC Exfoam 1.1 | Defoamer, containing silicone | 25 kg / 1,000 kg |
| KLC Exfoam 7 | Defoamer, containing polysiloxan | 25 kg |
| KLC Exfoam 8a | Defoamer, biodegradable | 25 kg |
| KLC Additiv AS 30 | Incrustation inhibitor, hardness stabilizer | 25 kg / 1,200 kg |
| KLC Neutra 50 | pH Regulator | 25 kg |

(* special cleaners are 30% more efficient than basic cleaners)

Advantages

- ✓ The Chemicals are tailored to the treatment of the respective process water.
- ✓ KLC cleaners are used in suitable dilutions and can be used several times.
- ✓ KLC defoamers are used in diluted form, automatically dosed only when required.
- ✓ The addition of additives during the evaporation process prevents crystal growth and ensures that precipitated solids do not form excessive deposits on surfaces. This effect is achieved even at very low concentrations, so that the use is economical and has a positive effect on the evaporation rate and cleaning effort.