

High requirements for cleaning agents

Conceptually, drone-based cleaning is a contactless method – without brushes or other mechanical aids. As a result, dirt removal must rely entirely on the cleaning agent. A suitable cleaning agent must therefore meet several important criteria.

Drone compatibility: The agent must be compatible with spraying systems and pump technology, and should enable uniform, fine-pored foam formation.

Stable clinging foam: The foam should adhere well to vertical surfaces to prolong contact time and allow thorough dirt removal.

High cleaning performance: Even stubborn contaminants such as bird droppings or insect residues must be efficiently removed.

Environmental compatibility: The agent should be readily biodegradable, especially in cases where the wash water cannot be collected.



Drone Cleaner EcoFoam MR-62



The **Drone Cleaner EcoFoam MR-62** is a whey-based cleaner produced in Switzerland.

What distinguishes this cleaner is that it is a fully natural, circular product certified according to the Cradle-to-Cradle (C2C) standard. It is readily biodegradable under OECD 301B guidelines, making it environmentally safe.

Product Informationen:

pH value (undiluted): 3.2 (acidic)

Recommended mixing ratio with water: 1:10

Level of foam formation: high

Protective measures: none required

Certification and listings:

The **Drone Cleaner EcoFoam MR-62** is made from natural ingredients that are harmless to humans and the environment. Its certification highlights its commitment to sustainability and safety.

Cradle-to-Cradle (C2C): Certified by Epeaswitzerland GmbH, Switzerland

Dermatologically tested: Certification by Dermatest GmbH, Germany



How to use the Drone Cleaner Eco Foam MR-62

- (1) For optimal foam formation, the spray nozzle and working pressure must be properly adjusted.
- (2) Mix 10% cleaner with water manually or automatically. Adjust if needed based on contamination.
- (3) Generously apply the cleaning foam to the surfaces to be cleaned.
- (4) Allow the foam to act for 10 to 15 minutes, making sure it does not dry out.
- (5) Rinse off remaining foam and dissolved dirt with a strong jet of water. Preferably use demineralized water.

Drone Cleaner Xtreme CR-63



The **Drone Cleaner Xtreme CR-63** is a powerful alkaline cleaner that effectively removes organic contaminants such as bird droppings, insect residues and grease.

It is specifically designed for the deep cleaning of heavily soiled glass and façade surfaces. Subsequent cleanings can then be carried out using the environmentally friendly Drone Cleaner EcoFoam MR-62.

Product Informationen:

pH value (undiluted): 13 (alkaline)

Recommended mixing ratio with water: 1:50

Level of foam formation: medium

Protective measures: PPE required

How to use the Drone Cleaner Xtreme CR-63

- (1) For optimal surface coverage, the spray nozzle and working pressure must be properly adjusted.
- (2) Read the safety data sheet before starting work.
- (3) Use appropriate Personal Protective Equipment (PPE).
- (4) Always test on a small area of sensitive materials before use.
- (5) Mix 2% cleaner with water manually or automatically. Adjust if needed based on contamination.
- (6) Generously apply the cleaning agent to the surfaces to be cleaned.
- (7) Allow the cleaning agent to act for 5 to 10 minutes, making sure it does not dry out.
- (8) Rinse off the dissolved dirt with a strong jet of water, preferably using demineralized water.
- (9) Handle the resulting wastewater in accordance with local regulations.

About clappt

Ciaras AG, a family-owned company from Eastern Switzerland, specializes in the production of sustainable cleaning agents under the brand clappt. These products are made using whey, a by-product of cheese production. Through a special process, the whey is stabilized and then further processed into highly effective cleaning solutions - while preserving the valuable natural cleaning enzymes it contains.