



**ECOBULK CLEANCERT + DUALPROTECT**  
Packaging with the highest protection  
for technically demanding filling products

# The world's most successful IBC system – now with dual protection!

Extra safe and user-friendly – the new  
**ECOBULK CLEANCERT + DUALPROTECT**  
delivers great benefits along the entire supply chain.

For the highest safety and maximum user-friendliness  
these IBCs are delivered **“ready to fill”**. This makes them  
ideal for very demanding and sensitive filling products  
with special safety and cleanliness specifications.

The liner integrated in the inner bottle provides an  
effective additional, independent barrier.



In the standard configuration the container  
is filled from below through the outlet valve.  
Optionally, the container can also be filled from  
above using the filling opening.

With the ECOBULK CLEANCERT + DUALPROTECT you can rule out contamination risks and extend the shelf-life of your filling products. At the same time you cut costs and benefit from maximum process and transport safety.



**+ DUALPROTECT**

#### Availability

Available for all 1,000 litre MX models

#### Protection against contamination

The liner successively unfolds, thus reducing contact between the filling product and the surrounding atmosphere to an absolute minimum: **99 % less oxygen exposure in comparison with a standard IBC**

#### HDPE outer container

- Highly resistant to chemicals
- Excellent mechanical properties
- Barrier against water vapour
- Optionally available with light and UV protection

#### Leakage protection

Secure additional protection against filling product leakage – even if the integrated liner is damaged

#### Outlet valve

- DN 50 standard
- Optionally available in other versions (e.g. Camlock)

#### Filling opening

- DN 225 screw cap used as standard for the inner bottle

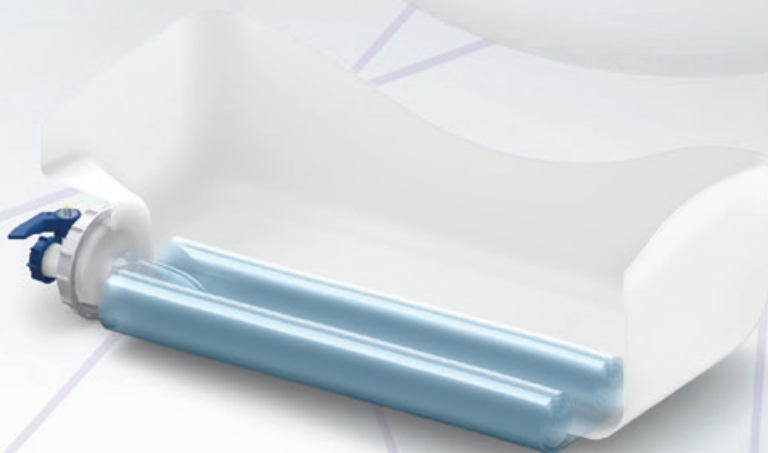
#### Approvals

UN 1.9 hazardous goods approval

#### Integrated liner

High-quality LDPE film for the highest impermeability, cleanliness and mechanical resistance, including a permeation barrier against oxygen

- The liner automatically unfolds and aligns during filling
- Optional: germ-reduced version





# The packaging system for maximum quality protection with minimum effort.

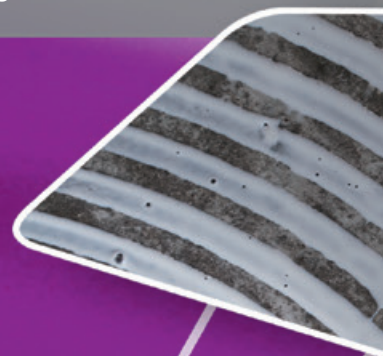
**SCHÜTZ ECOBULK** offers economic and environmental advantages and can be used world-wide along the entire supply chain without requiring any administration.

With **CLEANCERT + DUALPROTECT** we have again expanded the range of applications for our IBCs and now offer a new packaging solution for technically very demanding products.

## Application example adhesives:



When exposed to oxygen, most adhesives react by forming a skin or start to harden. **CLEANCERT + DUALPROTECT** containers minimise the exposure of the contents to oxygen both during filling and inside the packaging. This gives the products a longer shelf-life and makes discharging easier.





## Benefit from additional advantages:


- The packaging is delivered **“ready to fill”**, i.e. it is not necessary to insert an inliner.
- The SCHÜTZ packaging system is highly robust – the **UN approval** for hazardous goods also applies to the variant with the liner.
- In contrast to multiple-use systems, there is **no risk of contamination** caused by residues of previous filling products.
- By filling into the **integrated liner** the general risk of contamination for the filling product is further minimised.
- The **shelf-life of the filling product** is extended and consistent quality is assured from filling to discharge.
- The liner **prevents** changes to the filling product caused by exposure to the air – e.g. **skin formation or hardening**.
- **Nitrogen blanketing**, which is necessary when using other types of containers, **is not required**.
- There is **no risk** of the filling product coming into contact with the **condensate** that can form inside the inner bottle.



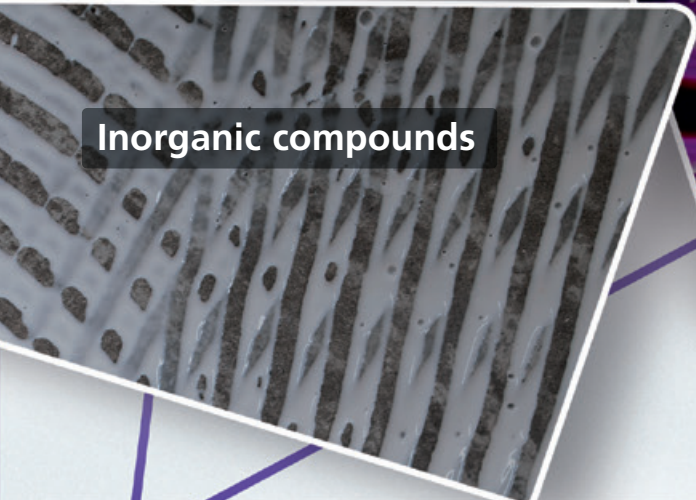
Natural  
organic compounds



Silicones



Synthetic organic  
compounds



Inorganic compounds

**ECOBULK CLEANCERT + DUALPROTECT** are suitable for all standard filling systems and processes, including automatic filling and emptying with pump systems.

\* Optionally, the container can also be filled from above using the filling nozzle in the liner.



#### **Filling from below\***

The filling pipe is connected to the standard outlet valve of the IBC. The integrated liner unfolds automatically as the container is filled. The air in the inner bottle is vented by opening the screw cap.



# Easy and safe handling from filling to emptying.

## Handling & Transport

After filling, the outlet valve or the screw cap of the ECOBULK is closed and sealed, if necessary. SCHÜTZ containers are suitable for all standard handling systems, they have ISO container-compliant dimensions, offer perfect stackability and are ideal for use in high racking warehouses. The filled IBCs are loaded and transported in accordance with standard procedures.

## Emptying

As a rule, the container is emptied gravimetrically, easily and safely through the outlet valve, which is firmly attached to the liner and the inner bottle of the IBC.

For liquids with a watery consistency this method achieves almost complete emptying without any other measures being required.



For more viscous filling products the cap nut can be loosened and the liner and the outlet valve can be carefully pulled out of the container in order to empty it completely.



Our global network of service locations handles the fast collection and environmentally-friendly reconditioning of the empty containers including liners. After registering for free and without obligation all the customer needs to do is order the collection online, through the app, by e-mail or phone.

Convenient, safe and cost saving – discover the many benefits of the new **CLEANCERT + DUALPROTECT** along the entire supply chain compared with other types of packaging:



Stainless steel  
multiple-use  
systems

Folding  
plastic boxes  
with liners

Folding card-  
board boxes  
with liners

|                                       |                                                                                                             |   |   |   |   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------|---|---|---|---|
| READY<br>TO FILL                      | The packaging requires absolutely no assembly, no cleaning, no setting up and no liner installation         | ✓ | ✓ | ✗ | ✗ |
|                                       | The inside of the container is guaranteed to be clean and free of residues from previous products           | ✓ | ✗ | ✓ | ✓ |
| PROTECTION FOR<br>THE FILLING PRODUCT | Excellent barrier characteristics / protection against oxygen and water vapour permeation                   | ✓ | ✓ | ✓ | ✓ |
|                                       | Highest level of contamination protection thanks to minimum exposure to the surrounding atmosphere          | ✓ | ✗ | ✓ | ✓ |
|                                       | Effective protection against skin formation and hardening caused by exposure to oxygen                      | ✓ | ✗ | ✓ | ✓ |
|                                       | Longer shelf-life                                                                                           | ✓ | ✗ | ✓ | ✓ |
| SAFETY                                | Container has UN approval for use with hazardous goods                                                      | ✓ | ✓ | ✗ | ✗ |
|                                       | Highest level of leak safety thanks to additional leakproof exterior container                              | ✓ | ✗ | ✗ | ✗ |
|                                       | Robust exterior can resist damage caused by handling and exposure to the elements                           | ✓ | ✓ | ✓ | ✗ |
| FILLING &<br>EMPTYING                 | No gas blanketing required to minimise contact with the surrounding atmosphere                              | ✓ | ✗ | ✓ | ✓ |
|                                       | The container can be filled from below or above, depending on the process specifications                    | ✓ | ✓ | ✓ | ✓ |
|                                       | The outlet valve can be vapour sterilised for aseptic filling and discharge                                 | ✓ | ✓ | ✓ | ✓ |
| SUSTAINABILITY                        | Completely administration-free with no pool management, tracking, collection, cleaning or disposal required | ✓ | ✗ | ✗ | ✗ |
|                                       | Low tare weight and designed to make maximum use of space during transport and storage                      | ✓ | ✗ | ✓ | ✓ |
|                                       | Global collection service for environmentally-friendly reconditioning                                       | ✓ | ✗ | ✗ | ✗ |