



ASPEREX PREVENTIVE FLUID FORTE

TECHNICAL DATA SHEET

Biocide-free formulated fluid for
microbe-inhibiting surface treatment

Product Line	ASPEREX
Supplier	ERST GmbH

PRODUCT DESCRIPTION

ASPEREX Preventive Fluid Forte is a biocide-free formulated preventive fluid for microbe-inhibiting surface treatment in bakeries, food manufacturing and food processing facilities, as well as feed production facilities.

The product supports the formation of a stabilising protective film on suitable surfaces and contributes to the acute & preventive stabilisation of hygiene-sensitive production and operational areas.

ASPEREX Preventive Fluid Forte is suitable for large-area applications, spray application, as well as cold and warm fogging in suitable operational and technical system areas.

FUNCTION WITHIN THE ASPEREX SYSTEM

ASPEREX Preventive Fluid Forte is the large-area and room-oriented preventive component within the ASPEREX product range.

Following cleaning with ASPEREX Universal Cleaner Forte, the fluid can be used to provide a microbe-inhibiting treatment on suitable surfaces and to form a stabilising protective film.

The fluid is particularly suitable for:

- large-area surface treatments
- production-adjacent operational surfaces
- difficult-to-access system areas
- facility-related air-conditioning units
- facility-related air ducts
- facility-related ventilation systems
- areas that are only accessible to a limited extent by manual treatment

The specific system sequence depends on the target area, substrate, level of contamination and the operational hygiene concept.

ASPEREX Preventive Gel Forte may be used additionally for critical moisture, edge, junction and problem zones.

AREAS OF APPLICATION

ASPEREX Preventive Fluid Forte is intended for professional preventive applications in:

- bakeries and bakery operations
- food manufacturing facilities
- food processing facilities
- feed production facilities
- hygiene-sensitive production and auxiliary areas
- fermentation, storage, refrigeration, washing and cleaning areas within the above-mentioned facilities
- facility-related air-conditioning and ventilation areas within the above-mentioned facilities

MODE OF ACTION

ASPEREX Preventive Fluid Forte is based on a biocide-free, biophysical mode of action using specific chitosan biopolymer complexes.

On suitable surfaces, a film-forming biopolymer complex is created, which can bind microorganisms to the surface and inhibit their mobility and ability to reproduce.

The ASPEREX mode of action is described as a non-biocidal HYDROSORB mechanism.

It supports the preventive stabilisation of hygiene-sensitive surfaces without relying on aggressive oxidative chemistry or conventional biocidal mechanisms.

PRODUCT PROPERTIES

- biocide-free formulated preventive fluid
- microbe-inhibiting surface treatment
- suitable for spray application
- suitable for cold and warm fogging
- long-lasting protective film technology
- biophysical mode of action
- chitosan biopolymer complexes
- no aggressive oxidative chemistry required
- odour-neutral after application
- non-perfumed
- hypoallergenic
- biodegradable
- not hazardous to water
- based on 100% organic active substances
- developed and produced in Germany

TECHNICAL DATA

Property	Specification
Product name	ASPEREX Preventive Fluid Forte
Product type	Water-based preventive fluid / emulsion
Physical state	Liquid
Appearance	Cloudy / beige-yellow / orange
Odour	Characteristic, no long-lasting odour
pH value	3.0–4.5
Viscosity at 25 °C	0.8–2.0 mPas
Water solubility	Fully miscible
Density	Water-based; exact value not specified
Flash point	Not applicable
Storage class	12 – non-combustible liquids
Water hazard classification	NWG – not hazardous to water according to AwSV
Transport	Not classified as dangerous goods under transport regulations
Shelf life	24 months in the unopened original container
Storage temperature	5 °C to 35 °C

COMPOSITION / INGREDIENT LOGIC

INCI declaration according to the Safety Data Sheet:

- Aqua
- Chitosan
- Hydrolysed Keratin

The product logic is based on a biocide-free formulated, film-forming surface treatment using specific chitosan biopolymer complexes.

CONSUMPTION

When applied using a spray bottle, the recommended dosage is **approx. 2–3 spray strokes per 20 cm × 20 cm area**.

Based on a measured output of **approx. 4 ml per 3 spray strokes**, this results in a calculated application quantity of **approx. 50–75 spray strokes/m²**, corresponding to a guide consumption of **approx. 70–100 ml/m²**.

Application is carried out by even spraying followed by distribution using a wiping technique, without completely removing the protective film to be formed. The treated surface must be allowed to dry completely.

The actual consumption depends on the spray head, spray pattern, surface structure, substrate absorbency, desired treatment intensity and application technique.

SUBSTRATE AND PRELIMINARY TESTING

The surfaces to be treated must be clean, stable and suitable for a water-based preventive treatment.

Before large-area application, a test area must be prepared in an inconspicuous location.

The following should be checked in particular:

- material compatibility
- visual changes
- surface reaction
- residue formation
- suitability for the intended use and hygiene situation

Sensitive materials, product-adjacent surfaces and technical system areas must be assessed on a case-by-case basis.

APPLICATION – SURFACE TREATMENT

- i. Clean the surface with ASPEREX Universal Cleaner Forte.
- ii. Allow the surface to dry sufficiently or wipe it dry.
- iii. Apply or spray ASPEREX Preventive Fluid Forte evenly onto the suitable surface.
- iv. Allow the treated surface to dry completely.
- v. Once sufficiently dry, the surface may be used again in accordance with the company's operational requirements.

APPLICATION – SPRAYING AND FOGGING

ASPEREX Preventive Fluid Forte may be applied by fine spraying or by cold or warm fogging.

Fogging should preferably be carried out via suitable access points in facility-related air-conditioning and ventilation systems.

When used in ventilation and air-conditioning systems, fogging may be carried out over 1 to 3 system cycles.

Technical system areas may be treated while de-energised or in accordance with technical approval.

After fogging, sufficient time must be allowed for the fog to settle and for the treated internal areas to dry completely.

Only then should systems be put back into operation.

RESPIRATORY PROTECTION DURING FOGGING

During spray, cold fogging and warm fogging applications, inhalation of aerosols must be avoided.

Suitable respiratory protection is recommended for fogging applications. The specific selection of respiratory protection depends on:

- room size
- fogging equipment
- aerosol exposure
- ventilation situation
- exposure duration
- operational occupational safety requirements

A specific filter class must be determined on a site-specific and occupational safety-related basis.

SYSTEM COMBINATION

ASPEREX Preventive Fluid Forte may be used:

- after cleaning with ASPEREX Universal Cleaner Forte
- in combination with ASPEREX Preventive Gel Forte
- for large-area surfaces, extensive areas and difficult-to-access system areas
- as part of a regular hygiene and prevention concept

The specific sequence of Fluid / Gel depends on the target area and application situation.

REPEAT TREATMENT

In the event of increased microbiological contamination, the ASPEREX system treatment should be repeated as part of the company's basic cleaning routine.

For less sensitive surfaces and working areas, treatment may be repeated at intervals of 1 to 6 months.

Officially or operationally prescribed cleaning cycles must not be extended or reduced as a result.

APPLICATION AND OCCUPATIONAL SAFETY NOTES

The information provided in the current Safety Data Sheet must be observed during application.

General Notes:

- avoid contact with eyes
- do not eat, drink or smoke during use
- ensure adequate ventilation
- do not inhale gas / vapour / aerosols
- wear suitable protective clothing
- wear tightly fitting safety goggles when decanting or transferring
- wear suitable protective gloves
- close containers tightly after product removal
- use suitable respiratory protection for fogging applications

In the event of an accident, feeling unwell, eye contact or ingestion, the instructions in the Safety Data Sheet must be followed.



CLP / LABELLING INFORMATION

Proposal for technical documentation, subject to final regulatory approval:

Based on the available data, the mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

Hazard pictograms: none

Signal word: none

Hazard statements: none

Precautionary statements: no CLP-mandatory precautionary statements required, unless assessed otherwise from a regulatory perspective

During spray, cold fogging or warm fogging applications, do not inhale aerosols. Ensure adequate ventilation and use suitable respiratory protection.

The current Safety Data Sheet shall take precedence.

PACKAGING

ASPEREX Preventive Fluid Forte is available as:

- 5,000 ml pouch canister
- 1,000 litre IBC

NOTES

This Technical Data Sheet describes the intended technical application of the product. It does not replace the Safety Data Sheet and does not release the user from the obligation to assess substrates, operational requirements, hygiene requirements and material compatibility on a case-by-case basis.

STORAGE

- store in a cool, dry and well-ventilated place
- storage temperature: 5 °C to 35 °C
- protect from frost
- protect from direct sunlight and excessive heat
- keep container tightly closed
- shelf life in the unopened original container: 24 months

DISPOSAL

Product-specific disposal instructions will be added.

Until final supplementation, product residues, cleaning liquids and packaging must be disposed of in accordance with the applicable official regulations. Observe the information provided in the current Safety Data Sheet.

CONTACT

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