

USE

Biocide (Product Type 4) : Fungicidal, bactericidal, yeasticidal disinfectant for production buildings, plant, conversion equipment and storage places in the realm of food products for human consumption.

INDICATION

Airborne disinfecting treatment for the surfaces at the end of daily or weekly production runs or during depopulated cleaning campaigns, for professional use.

Preventive use for preserving microbiological balance in the production environment.

Corrective use for restoring microbiological balance to the production environment.

For use in food biological conversion buildings, first consult your supplier.

ACTION METHOD

Bactericide/Fungicide/ Yeasticide

See table § EFFICACY.

ULTRAD[®] HA releases a disinfectant chemical (Glycolic Acid) in the treated volume with no operator in attendance. It acts upon contact with vegetative bacteria, yeasts, and moulds.

ACTIVE INGREDIENT

Glycolic Acid (also called hydroxyacetic acid)

INSTRUCTIONS FOR USE

- Strictly no persons or animals in the treatment area.
- Strictly no foodstuffs in the treatment area.
- Switch off gas supply.
- Disconnect photoelectric eyes.
- As the product is generating smoke, smoke detector systems must be adapted during the operation.
- Close all exits of the premises.
- Uncompact the powder by reverting several times the container before opening.
- Distribute the required number of containers according to the volume to be treated.
- Place the container on a heat- and fire-resistant surface on the floor.
- Remove any combustible material at least 1.5 m away from the container.
- Remove the cover and light the wick with a torch lighter.
- Always start off with the container the furthest away from the exit.
- Leave the premises after making sure the treatment goes properly and keep all exits closed.
- Put a warning on all accesses to inform treatment is in progress.
- The biocide action is optimum after 15 hours of contact time.
- Ventilate the premises to renew the air for minimum 1 hour.
- The premises may be re-entered once contact time and ventilation have been completed.

- Observe a minimum 24h-interval between two treatments.

SAFETY

- **ULTRAD® HA** is according the regulation (EC) N° 1272/2008 :
- **Causes serious eye irritation Cat.2 H319**

Safety phrases :

- Do not breathe fume
- Wash your hands thoroughly after handling.
- Wear eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Safety information :

- Consult the Safety data sheet as well as the instructions on the product label.
- Consult your supplier and observe their specific recommendations.

Applicator safety :

- No exposure to the applicator; the product is diffused without operator intervention.
- Wear gloves when removing the spent doses.

Operator safety :

- In normally ventilated premises: no operator exposure.
- In confined, unventilated premises: consult your supplier.

Consumer safety :

- The data below is the result of measurements made in laboratory conditions before rinsing any process surfaces.
- The results show a worst-case exposure of roughly 1% of the daily allowable maximum.

Dose	S a m p l i n g point	Delay from start of treatment to sampling	G l y c o l i c acid residue m e a s u r e d on surfaces	Topmost consumer exposure (1)	Daily allowable maximum (2)	Conclusion
Extraordinary curative dose: 2g/m ³	floor	4h	6,60mg/m ²	1,320 mg	105 mg	Topmost exposition = 1,26% of DAM
Extraordinary curative dose: 2g/m ³	floor	24h	5,99mg/m ²	1,198 mg		Topmost exposition = 1,14% of DAM

(1) Consumer exposure is deduced from the amounts of GA remaining on the surfaces in a worst-case scenario, which assumes :

- the Glycolic acid residue is wholly absorbed into the food chain without any degradation
- Consumers spend their whole life ingesting nothing else but the aliment containing the GA residue

(2) DAM: 1.5mg per bodyweight kg per day, equivalent to 105mg per day for an adult weighing 70kg (source WHO).

EFFICACY OF ARBITRARY TREATMENT

- Bactericidal spectrum / Fungicidal spectrum

EFFICIENCY WITH A TREATMENT at the dose 0,8 g/m ³ , during 15 hours	
TESTED STRAINS	EFFICACY
<i>Pseudomonas aeruginosa</i> - CIP 103 467	6,3
<i>Candida albicans</i> - ATCC 10231	6,2
<i>Aspergillus niger</i> - ATCC 16404	6,8
<i>Enterococcus hirae</i> - CIP 58 55	7,34
<i>Salmonella enterica subsp enterica serotype choleraesuis</i> CIP 104220	>5,84
<i>Staphylococcus aureus</i> - CIP 4 83	5,55
<i>Pseudomonas aeruginosa</i> - CIP 103467	6,04
<i>Aspergillus brasiliensis</i> - DSM 1988	6,11
<i>Proteus vulgaris</i> - CIP 58 60	6,11
<i>Aspergillus fumigatus</i> - IP 865 64	6,19*
<i>Cronobacter sakasakii</i> - ATCC 29544	5,79
<i>Salmonella heidelberg</i> - DSM 9379	>7,97
<i>Listeria monocytogenes</i> - CIP 103.322	>7,34

(*): Efficiency obtained for 2h of contact time

PACKAGING

NAME	PACKAGING	FOR USE ON VOLUME OF
ULTRAD® HA 16g	Case of 24 canisters	20 m³
ULTRAD® HA 40g	Case of 12 canisters	50 m³
ULTRAD® HA 80g	Case of 18 canisters	100 m³
ULTRAD® HA 200g	Case of 12 canisters	250 m³
ULTRAD® HA 400g	Case of 6 canisters	500 m³
ULTRAD® HA 1000g	Case of 4 canisters	1250 m³

PHYSICO-CHEMICAL CHARACTERISTICS

White powder.

STORAGE/USE-BY DATE

Storage: Up to 2 years in a dry place.

UBD: 2 years

The technical information appearing in this document is wholly based on currently available technical data that LCB food safety considers reliable. It is intended for users whom we assume are experienced and acting on their own risk and discretion.

The handling precautions recommended in this document pre-suppose that before using this product, users will ensure that the specific conditions of use do not incur any health or safety risks.

In as far as we have no control over the actual conditions in which the product is used, we provide no guarantees, be they explicit or implicit, in this regard and decline all liability for the use made of this information.

Use biocides safely. Always read the label and product information before use.