

<b>SAFETY DATA SHEET</b> (EC) regulation n°1907/2006 annex II modified	Date issued : <b>16/12/2021</b>
<b>ULTRAD® HA</b>	Date of last revision : <b>20/06/2022</b>

## SECTION 1 : IDENTIFICATION OF MIXTURE AND OF THE COMPANY

### 1.1 Product identifier

**ULTRAD® HA**

### 1.2 Relevant identified uses of the mixture and used advised against

- Identified uses : Bactericidal and fungicidal smoke-producing powder  
Airbone disinfection of empty premises and equipment for food industry.
- Uses advised against : Treat away from humans and animals  
Treat without food/feed present.

### 1.3 Details of the supplier of the safety data sheet

- Manufacturer : LCB FOOD SAFETY – Groupe Kersia  
P.A.E ACTIPARC  
Rue des acacias  
01190 BOZ  
FRANCE  
Tel. +33 (0)3.85.36.81.00  
Fax +33 (0)3.85.36.01.28
- NZ supplier : HYGIENE TECHNOLOGIES LTD,  
28 Rangitane Road,  
Whakatu,  
Hastings 4180,  
NEW ZEALAND  
Tel. +64 6 876 4111  
info@hygienetech.co.nz
- SDS information : [regulatory@kersia-group.com](mailto:regulatory@kersia-group.com)

### 1.4 Emergency telephone number

- Emergency direct numbers (24/24 – 7/7)  
Asia, Pacific (+) 65 3165 2217
- New Zealand National Poisons Centre (24/7) 0800 POISON (0800 764 766)

## SECTION 2 : HAZARD IDENTIFICATION

### 2.1 Classification of the mixture

- According the regulation (EC) n°1272/2008 : Eye irritation cat. 2 H319

### 2.2 Label elements

Hazard pictogram(s) :



Signal word :

WARNING

Hazard statement(s) :

H319 : Causes serious eye irritation.

Precautionary statement(s) - Prevention :

P260 : Do not breathe fume  
P264 : Wash your hands thoroughly after handling.  
P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) - Intervention :

P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 : If eye irritation persists: Get medical advice/attention.

### 2.3 Others hazards

Release of nitrogen oxide, nitrogen dioxide, carbon monoxide, ammonia and Hydrogen cyanide during the smoke-generating reaction.  
In the presence of green plants, risk of phytotoxicity.  
This mixture does not contains any substance responding to criteria for classification as PBT or vPvB in accordance with Annex XIII of Regulation (EC) No 1907/2206.  
This mixture does not contains any substance included in the candidate list to annex XIV of (EC) regulation n°1907/2006.

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### SECTION 3 : COMPOSITION/ INFORMATION ON INGREDIENTS

**3.1 Substance:** not concerned

**3.2 Mixture**

Description of the mixture: Biocidal powder

EC Nr	CAS Nr	INDEX Nr	Registration Nr Regl. EC 1907/2006	components	%	Classification CLP Regulation EC1272/2008
229-347-8	6484-52-2	-	01-2119490981-27	Ammonium nitrate	>20	Eye irrit. 2 H319 Ox. solid 3 H272
201-180-5	79-14-1	-	01-2119485579-17	Glycolic acid	1-5	Skin Corr. 1B H314 Acute Tox. 4 H332 Eye dam.1 H318

Complete H-phrases: see section 16

### SECTION 4 : FIRST AID MEASURES

**4.1 Description of first aid measure**

- Immediate treatment : If the person is unconscious, have a first-aid provider place the individual in a safe lateral position and monitor breathing
- In case of inhalation of fumes : Wear IPE require paragraph 8 and remove the person from the smoke fumes and have him/her breath fresh air. In case of persistent respiratory track irritation, contact a physician or emergency medical technicians, who will decide what to do.
- In case of skin contact : Wash the skin with water; remove the dirty clothing and wash it
- In case of contact with eyes : Wash with an eye wash or else with drinking water; if an eye irritation, pain or trouble appear and persist for more than an hour, consult an ophthalmologist
- In case of ingestion : Do not have the patient drink, eat or vomit and contact a physician or emergency medical technicians, who will decide what to do.
- In case of burning : In case of superficial burns (blotches), cool off the wound by indirectly running cold water on it for 15 minutes

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and acute effects

- By inhalation with smoke : In case of extended exposure and/or a large overdosing : irritation of respiratory mucous membrane, coughing, respiratory difficulties under stress, tachycardia ; vomiting ; dizziness
- By inhalation with powder : Coughing and respiratory difficulties.
- By eye contact : with smoke Irritation of the ocular mucous membranes, watering, and even conjunctiva with powder: Slight temporary irritation, watering
- by massive ingestion of powder : Irritation of the buccal mucous membrane, digestive tube, vomiting, diarrhea, abdominal pain, digestive troubles
- By skin contact with powder : Emaciation and itching

Symptoms and delayed effects : Extended chronic exposure may lead to emphysema.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Immediate treatment : symptomatic treatment
- Contraindications : not available
- Antidotes : not available
- On-site equipment : eye wash and portative shower

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## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media : Water (with recommended retention of fire extinguishing water)  
ABC multi-purpose powder

Unsuitable extinguishing media : Emulsifying foams or organic stabilizers, sand

### 5.2 Special hazards arising from the mixture

The smoke-generating reaction is exothermic.  
In case of fire, release of carbon monoxide, nitrogen monoxide

### 5.4 Advice for fire-fighter

In case containers are extinguished or cooled with water, avoid discharging the water into the environment.  
Self-contained breathing equipment

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precaution, protective equipment and emergency procedures

Precautions : In case of important release: Take away the staff not equipped with individual equipment of protection  
Aerate or ventilate to avoid dust formation  
Remove sources of ignition, sparks and any hot spot

Equipment : Wear gloves and an anti-dust mask or a nose/mouth half mask equipped with a P type filter (dust)  
Wear protective clothes.

### 6.2 Environmental precautions

Avoid spilling the product on the ground or pouring it in a stream or in a sink or in a sewer

### 6.3 Methods and material for containment and cleaning up

Containment techniques : none

Clean-up procedures : Collect the product by sucking up and then eliminating it in compliance with the regulations in force.

Never use : none

### 6.3 Reference to other section

Information about handling: see section 7  
Information about Individual Protective Equipment: see section 8  
Information about waste: see section 13

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Precautions for safe handling : In use : Place the doses on a heat and fire resistant support (earthenware).  
Leave the room before the smoke spreads.  
Indicate at the accesses to the room that it is currently being treated and prohibit access.  
Do not enter the room while the treatment is being applied.  
If it is absolutely necessary to enter the room during the treatment, the full individual protection equipment is required (see §8)  
Make sure that the doses used are cold before disposing of them.

Prevention of fire : Do not use the product directly to carpeting or linoleum, or in the immediate vicinity of cloth, curtains or other; keep any readily inflammable or combustible material outside a radius of 1.50 m from the product.  
Do not use in extremely dusty rooms (opaque dust cloud) or in the presence of inflammable vapour.  
In livestock rooms, keep the straw outside a radius of 1.50 m from the product; place the doses in a secure stainless steel container.  
If the room to be treated is in an EXAT- explosive atmosphere- zone, evaluate the reality of the room's EXAT character and, if necessary, temporarily suspend the EXAT character of the room by appropriate measure(s) during the usage time of the product.  
If smoke is visible from the outside, inform the neighbours to avoid frightening them with the sight of the smoke. If necessary, particularly in a sensitive industrial or urban area, inform the fire department about the date and time of the treatment.

Hygiene measures : Don't drink, eat or fume during utilisation  
Wash your hand after use  
Don't eat with work clothes

<b>SAFETY DATA SHEET</b> (EC) regulation n°1907/2006 annex II modified	Date issued : <b>16/12/2021</b>
<b>ULTRAD® HA</b>	Date of last revision : <b>20/06/2022</b>

## 7.2 Conditions for safe storage, including any incompatibilities

Technical measure and storage conditions	:	Store in correctly ventilated and temperate rooms maintained at ambient temperature (optimum 15°C - 25°C) and protected from humidity and away from any ignition source If possible, store in an area fitted with a collection tank for fire extinguishing water. Store away from food and feedstuffs.
Packaging	:	Store in the original packaging kept closed.
Specific designs for storage rooms	:	If possible, store in an area fitted with a collection tank for fire extinguishing water.

**7.3 Specific end use(s):** none

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Workplace exposure limits in the powder: none

Workplace exposure limit in fumes :

	WEL	Ammonia CAS n°7664-41-7		carbon monoxide CAS n°630-08-0		nitrogen monoxide CAS n° 10102-43-9		nitrogen dioxide CAS N°10102-44-0		Hydrogen cyanide CAS n° 74-90-8	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
France	8 hrs	7	10	55	50	30	25	-	-	2	2
	15 min	14	20	-	-	-	-	6	3	10	10
USA-OSHA	8 hrs	35	50	55	50	30	25	-	-	11	10
	15 min	-	-	-	-	-	-	9	5	-	-
United Kingdom	8 hrs	18	25	35	30	-	-	-	-	-	-
	15 min	25	35	232	200	-	-	5	9.6	11	10
UE	8 hrs	14	20	23	20	2.5	2	0.96	0.5	1	0.9
	15 min	36	50	117	100	-	-	1.91	1	5	4.5

Biological exposure indicators:

None

Recommended monitoring procedures

: Control of the work areas atmosphere after treatment:  
After aeration/ventilation, the atmosphere of the rooms returns to normal  
In the case of confined rooms which cannot be sufficiently aired, control ammonia concentration.

DNEL /PNEC

: Not available

### 8.2 Exposure controls

Appropriate engineering controls

: In use, keep any readily inflammable or combustible material.  
Prohibit access to the premises during treatment  
At the end of the application period, mechanically ventilate the work areas for a minimum of 1 hour in order to replenish the ambient air to 90%

Eyes/face protection

: Wear glasses in case of release of dust. (EN166)

Skin protection

: If it is necessary to enter the room during the treatment, wear skin protection clothes and gloves.

Hand protection

: If the powder has to be touched directly with hands, wear unpierced rubber gloves (Usage limit: occasional contact; after utilization, discard dirty gloves without rinsing them off). (EN 374)

Respiratory protection

: No individual protection equipment is required to apply the product under normal conditions.  
If it is absolutely necessary to enter the room during the treatment, wear a face mask equipped with an ABEK (class 2) + P (class 3) type filter.  
Stay in the room only for a very short time (1 minute maximum).  
In case there is a risk of inhaling the powder, for example, after an accidental spreading, wear an anti-dust mask or a half mask equipped with a P type class 2 "dust" filter (filter usage limit : breakdown time ; consult the filter supplier ; see also the standard EN 141)

<b>SAFETY DATA SHEET</b> (EC) regulation n°1907/2006 annex II modified	Date issued : <b>16/12/2021</b>
<b>ULTRAD® HA</b>	Date of last revision : <b>20/06/2022</b>

Thermal hazard : To remove doses after utilization, wear thermal gloves.

Environmental exposure controls : none

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance : Fine and fluid powder (floury aspect) - White-beige (off white)

Color : White-beige (off white)

Odour : Slight non-aggressive odour

Odour threshold : Not available

pH (1% in water) : 4,6 - 5,7

Melting point/freezing point : non applicable

Initial boiling point and boiling range : non applicable

Flash point : Non applicable

Evaporation rate : Non applicable

Inflammability : Non- inflammable (UN N.1)

Upper explosive limits: Not available

Lower explosive limits: Not available

Vapour pressure : Not available

Vapour density : Non applicable

Relative density : Tap density : 0.66 ± 0,1  
Bulk density : 0.50 ± 0,1

Solubility : In water : Partial (water-soluble components)  
In other solvents : Not available

Partition Coefficient n-octanol/eau : Glycolic acid: -1.11

Auto-ignition temperature : 213,8°C (UN N.4)

Decomposition temperature : Not available

Viscosity : Not applicable

Explosive properties : Non-explosible (UN serial 2)

Oxidising properties : Non-oxidising (UN O.1)

### 9.2 Others information

Class of dust explosion : St1

Minimum ignition temperature in the air : 510°C

Densité relative à 22.8°C : 1.58 (gaseous picnometry method)

Corrosivity on metal : Non corrosive (UN C.1)

<b>SAFETY DATA SHEET</b> (EC) regulation n°1907/2006 annex II modified	Date issued : <b>16/12/2021</b>
<b>ULTRAD® HA</b>	Date of last revision : <b>20/06/2022</b>

## SECTION 10 : STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No risk of dangerous reactivity of the product in its original packaging and in normal storage conditions and handling. The principle of the implementation of the product is based on an exothermic reaction
<b>10.2 Chemical stability</b>	Product stable under normal usage and storage conditions
<b>10.3 Possibility of hazardous reaction</b>	No known hazardous reactions known under normal handling and storage conditions
<b>10.4 Conditions to avoid</b>	Product stable under normal usage and storage conditions
<b>10.5 Incompatible materials</b>	No known incompatible materials
<b>10.6 Hazardous decomposition products</b>	Release of nitrogen oxide, nitrogen dioxide, carbon monoxide, ammonia and cyanhydric acid, during the smoke-generating reaction.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity	:	Test : OCDE 425 Specie : rat female Route of exposure : oral Exposition time : 14 days Result: DL <sub>50</sub> : >2000 mg/kg  Test : OCDE 402 / CEE B.3 Specie : rat male/female Route of exposure: dermal Exposition time : 14 days Result : DL <sub>50</sub> : >2000 mg/kg
Skin corrosion/irritation	:	Test : OCDE 404 Result: not classified
Serious eye damage/irritation	:	Test : OCDE 405 Result : eye irritant
Respiratory or skin sensitization	:	Based on available data, classification criteria are not met
Germ cell mutagenicity	:	The product does not include any component known as mutagenic
Carcinogenicity	:	The product does not include any component known as carcinogenic
Reproductive toxicity	:	The product does not include any component known as toxic for reproduction
STOT-single exposure	:	Based on available data, classification criteria are not met
STOT-repeated exposure	:	Based on available data, classification criteria are not met
Aspiration hazard	:	Based on available data, classification criteria are not met

## SECTION 12 : ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>		No experimental data available.
Glycolic acid	:	CL <sub>50</sub> minnow/96h: 164 mg/l CE <sub>50</sub> daphnia/48h : 141 mg/l
Ammonium nitrate	:	CL <sub>50</sub> poisson/48h: 74-102 mg/l CE <sub>50</sub> Daphnia magna: 555 mg/l CE <sub>50</sub> Algae: 83 mg/l
<b>12.2 Persistence and degradability</b>		
Glycolic acid		Readily biodegradable

<b>SAFETY DATA SHEET</b> (EC) regulation n°1907/2006 annex II modified	Date issued : <b>16/12/2021</b>
<b>ULTRAD® HA</b>	Date of last revision : <b>20/06/2022</b>

<b>12.3 Bioaccumulative Potential</b>	not available
<b>12.4 Mobility in soil</b>	not available
Glycolic acid	Koc : 1
<b>12.5 Results of PBT and vPvB assessment</b>	not available
<b>12.6 Other adverse effects</b>	not available

## SECTION 13 : DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Unused product	:	Do not discharge to the ground, the sewage system or a river Dispose in original packaging. Dispose as hazardous waste according to national and community regulations in force, by an approved company.
Packaging	:	Keep the label on the container. Dispose of packaging and combustion residues as non-hazardous waste in accordance with national regulations or EU regulations. Remove rinsed packaging material by approved for recycling.
Particular precautions	:	None
EC regulatory provisions	:	European commission Decision 2000/532/EC of 03 May 2000 establishing a list of wastes Directive 2008/98/CE on waste

## SECTION 14 : TRANSPORT INFORMATION

### ADR/RID/IMDG/OACI-IATA :

Product not classified in accordance with international regulations relating to the transport of dangerous goods.

<b>14.1. UN number</b>	Not concerned
<b>14.2. UN proper shipping name</b>	Not concerned
<b>14.3. Transport hazard class(es)</b>	Not concerned
<b>14.4. Packing group</b>	Not concerned
<b>14.5. Environmental hazards</b>	Not concerned
<b>14.6. Special precautions for user</b>	Not concerned
<b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	: Not concerned

## SECTION 15 : REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the mixture

Regulation (EU) n°528/2012 of 22 May 2012 concerning the making available on the market and use of biocidal products

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

Regulation (EC) n°1005/2009 on substances that deplete the ozone layer) : not concerned

Regulation (EC) n°2019/1021 on persistent organic pollutants not concerned

Regulation (EU) n°649/2012 concerning the export and import of dangerous chemicals: non concerned

Regulation (EC) n°1907/2006 (REACH) :

Authorisation (title VII regulation (EC) n°1907/2006):

Restriction (title VIII regulation (EC) n°1907/2006):

not concerned  
ammonium nitrate (Nr.58)

<b>SAFETY DATA SHEET</b> (EC) regulation n°1907/2006 annex II modified	<b>Date issued :</b> <b>16/12/2021</b>
<b>ULTRAD® HA</b>	<b>Date of last revision :</b> <b>20/06/2022</b>

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors : This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

not available

## 15.2 Chemical safety assessment

### SECTION 16 : OTHER INFORMATION

Last revision	:	§ 1.3 / 1.4
Legend to abbreviations and acronyms	:	LD: Lethal dose C <sub>L</sub> : Lethal concentration C <sub>E</sub> : Efficacy concentration PNEC: Predicted No Effect Concentration DNEL: derived no-effect level PBT: Persistent Bioaccumulative Toxic vPvB : very Persistent and very bioaccumulative
Literature reference	:	Physicochemical trials and the exposure risk study conducted on the product safety data sheets on the components INRS material safety data sheet and INRS documentary notes
R phrases and H phrases describe in section 3	:	H272 : May intensify fire; oxidizer H314 : Causes severe skin burns and eye damage H318 : Causes serious eye damage. H319 : Causes serious eye irritation H332 : Harmful if inhaled.
Advice on training appropriate for workers	:	Safety training for biocidal products

"IMPORTANT: This safety data sheet is additional to the technical operating instructions but does not replace them. All the information and recommendations are given in good faith and accurately represent the current state of knowledge. Users are responsible for verifying and validating beforehand the use of the product under the required conditions and for reporting any observations. Users are further alerted to the potential risks incurred if a product is used for purposes other than those for which it is intended. This sheet does not in any way exempt the user from knowing and applying all the texts regulating his activity. He will be solely responsible for taking the necessary precautions when using the product. The statutory regulations mentioned are simply intended to assist the user in fulfilling his obligations with regard to the use of a dangerous product. This list must not be regarded as exhaustive. It does not exempt the user from ensuring that he is not subject to other obligations because of texts not mentioned, which govern storage and use of the product for which he solely is responsible."