

(EC) regulation n°1907/2006 annex II modified

Date issued : 30/01/2012

FUMAGRI HA

Date of last revision : 30/01/2012

1. IDENTIFICATION OF MIXTURE AND OF THE COMPANY

Product identifier : FUMAGRI HA

Relevant identified uses of

the mixture

Bactericidal and fungicidal smoke-producing powder

Disinfection of empty premises and equipment for breeding and feedstuff areas (Product Type 3&4)

Uses advised against : Treat away from humans and animals

Treat without food/feed present.

Details of the supplier of the

safety data sheet

Supplier:

LCB 71260 LA SALLE (F)

Tél. :+33 (0)3.85.36.81.00 Fax.:+33 (0)3.85.36.01.28

SDS Information: fds@lcb.fr

Emergency telephone number

France:

ORFILA (INRS): +33 (0)1.45.42.59.59

Base Nationale des Produits et Compositions: +33 (0)3.83.32.36.36 (24h/24h)

2. HAZARD IDENTIFICATION

2.1 Classification of the mixture The product is NOT CLASSIFIED according to the meaning of the directive 1999/45/CE

2.2 Label elements

Hazard symbol : none Risk phrases : none

Safety phrases : S23.4: Do not breathe fumes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice

2.3 Others hazards Release of nitrogen oxide, nitrogen dioxide, carbon monoxide, ammonia and cyanhydric acid,

during the smoke-generating reaction.

In the presence of green plants, risk of phytotoxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard:

components	%	Enregistrement Nr Regl. EC 1907/2006	INDEX Nr	EC Nr	CAS Nr	Classification directive 67/548/EEC	Classification CLP Regulation EC1272/2008
Glycolic acid	1-5	01-2119485579-17	-	201-180-5	79-14-1	C-R34 Xn-R22	Skin Corr. 1B H314 Acute Tox. 4 H332 Eye Dam. 1 H318
calcium carbonate	1-5	01-2119486795-18	-	207-439-9	471-34-1	Xi-R36/38	Cut. irrit. Cat. 2 H315 Eye irrt. Cat. H319
Ammonium nitrate	>20	01-2119490981-27	-	229-347-8	6484-52-2	Xi R36 O R8	eye irr. 2 H319 ox. solid 3 H272

<u>Substances with occupational exposure limit values</u> : see §8

PBT or vPvB substances : none

Substances included in the candidate list to annex XIV

of (EC) regulation n°1907/2006 : none

Complete R-phrases and H-phrases : see section 16



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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

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 : 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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water (with recommended retention of fire extinguishing water)

ABC multi-purpose powder

Unsuitable extinguishing media : Emulsifying foams or organic stabilizers, sand

Special hazards arising from :

the mixture

The smoke-generating reaction is exothermic

possible release of toxic vapour

Powder may stoke up combustion in a fire

Advice for fire-fighter : In case containers are extinguished or cooled with water, avoid discharging the water into the

environment.

Self-contained breathing equipment.



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6. ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment and emergency procedures

In case of important release: Take away the staff not equipped with individual equipment of

protection

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

Wear protective clothes.

Aerate or ventilate to avoid dust formation

Remove sources of ignition, sparks and any hot spot

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

Methods and material for containment and cleaning up

Containment techniques: not necessary

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

with the regulations in force

Never use : none

Reference to other section: Information about handling: see section 7

Information about Individual Protective Equipment: see section 8

Information about waste: see section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling : 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

Leave the room before the smoke spreads

Instruction of use : Disconnect the smoke detectors and stop the ventilation

Place the doses on a heat and fire resistant support (earthenware)

Close all the room's exits after starting of the treatment.

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)

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.

Make sure that the doses used are cold before disposing of them.

Hygiene measures: Don't drink, eat or fume during utilisation

Wash your hand after use Don't eat with work clothes

7.2 Conditions for safe storage, including any incompatibilities

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 in the original packaging kept closed.

Store away inflammable products

7.3 Specific end use(s): none

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(mg/m³)	calcium carbonate inhalable	calcium carbonate respirable
United Kingdom / 8h	10	4

Exposure limit values of gas released:

	United P	Kingdom	European union		
mg/m³	8h	15 min	8h	15 min	
ammonia	18	25	14	36	
carbon monoxide	-	-	23	117	
nitrogen dioxide	-	-	0.2ppm	-	

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

with a DRAEGER type pump.

DNEL /PNEC ammonium nitrate : Workers :

DNEL(long-term / oral): Not available DNEL(long-term / dermal) : 21.3 mg/kg/day DNEL(long-term / inhalation): 37.6 mg/m³

Generale population:

DNEL(long-term / oral) : 12.8 mg/kg/day DNEL(long-term / dermal) : 12.8 mg/kg/day DNEL(long-term / inhalation): 11.1 mg/m³

8.2 Exposure controls

Appropriate engineering controls : During the usage of the product, move all inflammable materials away.

Indicate the treatment in progress at each entrance 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%

Individual protection measures :

Eyes/face protection: No individual protection equipment is required to apply the product under normal conditions.

Wear glasses in case of release of dust.

Skin/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). If it is absolutely necessary to enter the room during the treatment, wear skin protection clothes

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)

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

Environmental exposure controls : none

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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

Flash point : Non applicable

Evaporation rate : Non applicable

Inflammability : Non- inflammable (EEC A10)

Upper explosive limits:Not availableLower explosive limits:Not availableVapour pressure:Not available

Vapour density : Non applicable

Relative density

Tap density : 0.65 Bulk density : 0.49

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 (EEC A16)

Decomposition temperature : Not available

Viscosity : Not applicable

Explosive properties : Non- explosible (EEC A14)

Oxidising properties : Non-oxidising (EEC A17)

9.3 Others informations : Class of dust explosion : St1

9.2 Others informations

: Class of dust explosion: St1
Minimum ignition temperature in the air 510°C

10. STABILITY AND REACTIVITY

Reactivity : 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

Chemical stability : Product stable under normal usage and storage conditions

Possibility of hazardous reaction : No known hazardous reactions known under normal handling and storage conditions

Conditions to avoid : Product stable under normal usage and storage conditions

Incompatible materials : No known incompatible materials

Hazardous decomposition products: Release of nitrogen oxide, nitrogen dioxide, carbon monoxide, ammonia and cyanhydric acid, during

the smoke-generating reaction.



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TOXICOLOGICAL INFORMATION 11.

11.1. Information on toxicological effects

Acute toxicity No experimental data available.

Glycolic acid LD₅₀ (oral) rat : 1938 mg/kg

CL₅₀ (inhalation) rat/4h: > 5.2 mg/l

Calcium carbonate LD₅₀ (oral) rat: 6450 mg/kg/bw

LD₅₀ (cut) rat : 500 mg/kg/bw

Ammonium nitrate DL50 (oral) rat: 2950mg/kg

DL50 (cut) rat: >5000 mg/kg CL50 (inhalation) rat: > 88.8 mg/l

Eyes irritation moderately irritant for eyes (OCDE n°405)

Corrosivity The product is not corrosive for skin

Sensitisation The product does not include any sensitizing ingredient

Repeated dose toxicity No experimental data available

In case of chronic exposure to the smoke, emphysema may appear.

CMR effects The product does not include any CMR- ingredient known

ECOLOGICAL INFORMATION 12.

Toxicity No experimental data available.

CL₅₀ minnow/96h: 164 mg/l Glycolic acid

CE₅₀ daphnia/48h: 141 mg/l

CE₅₀ poisson/96h: >42 mg/l Calcium carbonate

CE₅₀ Daphna mania/48h: >42 mg/l

CE₅₀ Algae/72h: >42 mg/l

CL₅₀ poisson/48h: 74-102 mg/l Ammonium nitrate

CE₅₀ Daphnia magna: 555 mg/l

CE₅₀ Algae: 83 mg/l Persistence and degradability

Glycolic acid Biodégradation: 89.6% in 7 days

Bioaccumulative Potential not available

Mobility in soil not available

Results of PBT and vPvB not available

assessment

Other adverse effects not available

DISPOSAL CONSIDERATIONS 13.

Waste treatment methods Dispose in accordance with national regulations or Community legislation, by a certified company

The powder and combustion residues are not classified as hazardous waste classification.

Particular precautions None

EC regulatory provisions European commission Decision 2000/532/EC of 03 May 2000 establishing a list of wastes

TRANSPORT INFORMATION 14.

ADR/RID/IMDG/OACI-IATA:

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

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REGULATORY INFORMATION 15.

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

Biocidal product according council directive 98/8/CE

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°2037/2000 on substances that deplete the ozone layer):

not concerned

Regulation (EC) n°850/2004 on persistent organic pollutants

not concerned

Regulation (EC) n°689/2008 concerning the export and import of dangerous chemicals:

non concerned

Directive 96/82/CEE (SEVESO II):

Regulation (EC) n°1907/2006 (REACH):

not concerned

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

not concerned not concerned

15.2 Chemical safety assessment:

not available

OTHER INFORMATION 16.

1st version Last revision:

Legend to abbreviations and

I D Lethal dose

acronyms

Lethal concentration $C_{L:}$

CF-Efficacy concentration PNEC: Predicted No Effect Concentration

DNEL: derived no-effect level

PBT: Persistent Bioaccumulative Toxic very Persistent and very bioaccumulative vPvB:

Literature reference Physicochemical trials and the exposure risk study conducted on the product

safety data sheets on the ingredients

the INRS material safety data sheet ED 98

INRS documentary notes ED 984 - ND 2113 - ND 2065 - ND 2245

Method of evaluating used for

classification:

Method OCDE n°405 : eye irritation

Method B.5 de la directive 2004/73/CE

List of relevant R phrases and

H phrases describe in section 3

Contact with combustible material may cause fire. R22 Harmful if swallowed.

Irritating to eyes. R36 R34 Causes burns

R36/38 Irritating to eyes and skin May intensify fire; oxidizer H272

Causes severe skin burns and eye damage H314

H315 Causes skin irritation H318 Causes serious eye damage. Causes serious eye irritation H319

H332 Harmful if inhaled.

Advice on training appropriate for

workers

Safety training for biocidal chemical products

Classification according UE regulation n° 1272/2008

not available

"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.

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