
	SAFETY DATA SHEET Drafted in accordance with directive 91/155/CEE modified	Date of issue: 24/01/2006
	FUMISPORE OPP  Specific risk: IRRITANT- R36/37/38 classification established according to directives 67/548/CEE and 1999/45/CE modified	Date of latest revision: 24/01/2006

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1- IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / ENTERPRISE:

Product name: **FUMISPORE OPP**

Application: Disinfection by airborne process of empty food transformation and storage premises

Marketing company:
 Indevex Watertech AB
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 Sweden

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Emergency number: 112

2 – COMPOSITION / INFORMATION ABOUT THE CONSTITUENTS



Bactericidal and fungicidal preparation in the form of a fumigating powder

Constituent contributing to hazards:

- orthophenylphenol: 20%

- Synonyms: biphenyl-2-ol; 2-hydroxybiphenyl; 0-biphenylol;
2-phenylphenol; 0-xenol
- CASE n° : 90-43-7
- CE n° : 201-993-5
- index : 604-020-00-6
- classification: Xi: irritant, R36/37/38
N: dangerous for the environment, R50

Other hazardous constituents: **NONE**

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3- HAZARD IDENTIFICATION

- ♦ health hazards: irritation

1/ on ingestion, the following effects may arise:

- irritation of the buccal mucosa and digestive tract, vomiting, diarrhoea, liver and kidney problems, shivering, convulsions, fever, nose bleed

2/ on inhalation of powder or smoke:

- irritation of respiratory airways; breathlessness; rarely: collapse

3/ on contact with the skin:

- irritation; dryness and itching

4/ on contact with the eyes:

- irritation and watering

- ♦ environmental hazards: acute and localized for aquatic fauna



1/ if the powder is dispersed in an aquatic environment, risk of acute localized destruction of fauna

2/ if the powder is dispersed in immediate proximity to beehives, risk for the bees

3/ in the event of treatment in a room containing an uncovered aquarium, toxic risk for the fish

4/ in the event of treatment with green plants in the room, risk of phytotoxicity

The product is classified as dangerous in the sense of directive 1999/45/CE modified: Xi: IRRITANT

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4- FIRST AID

If the smoke and powder come into contact with the eyes:

wash immediately and abundantly for at least 10 to 15 minutes in water containing an appropriate eye rinsing product (eyewash) or, in drinking water; consult an ophthalmologist immediately

If the smoke and powder come into contact with the skin:

wash abundantly in water using a lot of soap;
remove soiled clothes and wash them

If the powder is ingested:

consult a doctor or first-aid personnel, who will decide what to do

If the smoke is inhaled:

remove the person from the area and have him breathe fresh air;
if there is persistent respiratory difficulty or irritation of respiratory airways,
consult a doctor or first-aid personnel

Safety measure:

- in the event of ingestion, do not make the patient drink, eat or vomit
- if the person is unconscious, call a first-aid officer to place him in the lateral safety position and monitor respiration

5 - FIRE-FIGHTING PROCEDURES

Appropriate extinguishing equipment:

water (it is ESSENTIAL to retain water used to extinguish the fire)
multipurpose ABC powder

Extinguishing materials not recommended:



foams with organic emulsifiers or stabilizers
Sand

Hazards and specific effects in the event of fire:

possible release of toxic fumes

Special fire-fighting methods and equipment:

- in the event of extinction or cooling containers in water, do not discharge the water into the environment
- self-contained breathing apparatus

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6- PROCEDURE IN THE EVENT OF ACCIDENTAL DISPERSION

Personal precautions: wear gloves and a dust mask or mouth/nose mask with a filter type P (dust) (see § 8)

Cleaning methods: remove the product by suction or sweeping then eliminate in accordance with current regulations on hazardous waste with an irritant effect (see § 13)

Precautions for environmental protection: do not throw the product on the ground or into a water course; nor into a sink or drain

7- HANDLING AND STORAGE

Handling when using the fumigation product:

Technical operations:

- place the fumigation can on a heat-resistant support (ceramic)

Precautions to take:

- do not use the product placed directly on plastic or resin or in immediate proximity to easily inflammable material or fuel
- if the premises to be treated are in an EXAT zone, evaluate the EXAT nature of the premises periodically and if necessary temporarily suspend its classification by taking appropriate steps, for the time needed to use the product.
- leave the room before the smoke spreads
- put signs at access points indicating that treatment is in progress and prohibit access
- if the smoke is likely to escape or be visible from outside, inform the fire and emergency services in the area in advance of the time during which treatment will take place
- wash your hands after handling the product

Recommendations for use: NONE

Storage:

Technical operations: NONE

Recommended storage conditions:



- away from any source of ignition
- at a temperature not exceeding 40°C

Materials incompatible for storage:

- food and drink, including for animals

Recommended packaging materials:

- original packaging only

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8- CONTROL OF EXPOSURE/ PERSONAL PROTECTION

Personal protection equipment:

respiratory protection:

- No IPE necessary for normal use; if you have to go into the premises during fumigation, wear a full face-mask with an ABED type filter (class 2) + P (class 2 or 3)
- if there is a risk of inhaling the fumigation powder, after accidental spillage for example, wear a dust mask or half-mask with a type P "dust" filter (class 2) (limit of use of filter: burst time; ask the filter supplier; see also standard NF EN 141)

hand protection:



- no IPE necessary for normal use
- when removing fumigation doses after use, it is recommended to wear gloves
- if you are to handle the fumigation powder directly, wear unpunctured PVC gloves and do not rinse them when soiled)

skin protection:

- no IPE necessary for normal use
- if you have to go into the premises during fumigation, wear protective clothing (overall with hood), gloves and full face mask

eye protection:

- no IPE necessary for normal use
- if you have to go into the premises during fumigation, wear a full face mask



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9- PHYSICAL AND CHEMICAL PROPERTIES

<u>Aspect / physical condition:</u>	fine, fluid powder (floury aspect)
<u>Colour:</u>	white
<u>Odour:</u>	irritant
<u>pH in 1% suspension in water:</u>	6.4
<u>Temperature or boiling time:</u>	not applicable
<u>Flash point (container closed):</u>	not applicable
<u>Product explosibility characteristics in air:</u> none of the product's constituents are explosable in air	
<u>Density (kg/l):</u>	Non-settled powder: 0.66 Settled powder: 0.82
<u>Solubility:</u>	In water: partial (hydrosoluble constituents) In other solvents: not available
<u>Ignition or self-ignition temperature:</u> > 450°C (the smoke emission reaction is triggered at 350°C and prevents any self-ignition reaction)	

10- STABILITY AND REACTIVITY

<u>Stability:</u>	stable product
<u>Hazardous reactions and incompatible materials:</u>	no hazardous reactions or incompatible materials known; the fumigation reaction is exothermic
<u>Hazardous decomposition products:</u>	during the fumigation reaction, nitrogen and carbon monoxide and dioxide are given off as well as ammonia

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11- TOXICOLOGICAL INFORMATION

Acute toxic effects:

- No experimental data available relative to the preparation. In view of its composition, the fumigation powder does not have any immediate hazardous effects on ingestion, inhalation or contact with the skin, using the conventional method, apart from its irritant effects
- Exposure to the smoke can cause strong irritation and respiratory and eye problems

Deferred or chronic toxic effects:

- No experimental data available relative to the preparation. In view of its composition, the fumigation powder does not have any deferred or chronic hazardous effects
- In the event of chronic exposure to the smoke, emphysema may develop

Main symptoms:

1/ on ingestion:

- irritation of the buccal mucosa and digestive tract
- massive ingestion: vomiting, diarrhoea, abdominal pain, digestive problems

2/ on inhalation of powder:

- irritation of respiratory airways
- coughing and respiratory problems

3/ on contact of powder with the skin:

- skin irritation
- dryness and itching

4/ on contact with the eyes:

- strong irritation and tear secretion



5/ on inhalation of smoke:

- strong irritation of respiratory mucosa, coughing
- respiratory problems on effort
- tachycardia; nausea
- prolonged chronic exposure can promote the development of emphysema

6/ on contact of smoke with the eyes:

- strong irritation of the eye mucosa, watering or conjunctivitis

Specific or local effects: no other known effect

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12- ECOLOGICAL INFORMATION

- no data available about the preparation
- in view of the product composition, environmental hazards are due only to orthophenylphenol
- in powdered form, the product carries an acute localized risk for the environment and aquatic organisms

Behaviour and future in the environment: (pure orthophenylphenol)

Persistence and degradability:

- Persistence: complete elimination in 2 days by a wastewater treatment plant
- Biodegradability: > 75% (closed bottle method)

Potential for bioaccumulation:

- BCF: 70 – 100 (QSAR method)



Hazardous environmental effects: (pure orthophenylphenol)

Acute and chronic aquatic toxicity:

- CL0 (Brachydanio rerio): 2.3mg/l (96 hours)
- CL100 (Brachydanio rerio): 9mg/l (96 hours)
- CE50 (daphnia magna): 1.5mg/l (24 hours)
- CI50 (Desmodesmus subspicatus): 0.85mg/l (72 hours)

Effect on water quality:

- Water pollution class (WGK- Germany): 2

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13- ELIMINATION CONSIDERATIONS

Waste (product not used):

- do not discharge the product on the ground, into the drain or into a water course
- eliminate it in accordance with applicable national or community regulations, using an approved company.
- classification: *solid waste containing hazardous substances (H.I.W)*
- codification: 07 04 13
- transport: not subject to ADR

Soiled empty packaging (product used by fumigation):

If the packaging is not rinsed:

- keep the original label on each container
- eliminate or recycle in accordance with applicable national or community regulations, using an approved company.
- classification: *metal waste containing combustion residues (H.I.W)*
- codification: 15 01 04
- transport: not subject to ADR

European regulations:

- European commission decision n° 2002/532/CE of 03 May 2000 concerning waste classification

14- TRANSPORT INFORMATION

Classification according to international regulations

non-classified product according to international regulations governing the transport of hazardous materials

15- REGULATORY INFORMATION

European regulations:

The product is classified as dangerous according to directive 1999/45/CE



Hazard symbol: Xi

Risk sentences: R36/37/38 : irritant to eyes, respiratory system and skin

Recommendations for taking care:

- S37 : wear suitable gloves
 - S23.4 : do not breathe fumes
 - S26 : in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- Ventilate the treated areas for 30 to 60 minutes before going in

Specific terms: treat in the absence of humans or animals.
 treat in the absence of unwrapped food products
 do not reuse the packaging.

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16- OTHER INFORMATION

Test of risk terms applied to the constituents listed in paragraph 2:

- R36/37/38 : irritant to eyes, respiratory system and skin
- R50 : very toxic for aquatic organisms

Recommendations for training users:

- training in the safe use of biocidal chemicals

Recommended conditions and restrictions for use:

- France: registered by the Ministry of Agriculture under n° 2000169 for the disinfection of breeding premises and equipment and of production and storage of food and dairy products.
- Professional use

Documentary sources:

- Sheet drawn up on the basis of information from:
 - constituent safety data sheets
 - practical safety sheet INRS ED 98
 - documentary memos INRS ND 2098-02/05
 - ND 2113-176-99
 - ND 2065-169-97
 - ND 2190-191-03

Subject of the latest revision: document creation

"This sheet completes the technical instructions for use but does not replace them. The information it contains is based on the state of our knowledge of the product concerned, on the date of the latest revision. It is given in good faith. Users' attention is also drawn to the risks which may be incurred when a product is used for purposes other than those for which it is intended.

It does not excuse the user, under any circumstances, from knowing and applying all the regulatory texts governing the activity in question. The user will be sole responsibility for applying the precautions linked to the use made of the product."