



France

**MATERIAL SAFETY DATA SHEET****1. IDENTIFICATION OF THE PRODUCT**

**Product :** **DOBOL Fumigator**

**Use :** Biocide product (PT 18)  
Insecticid water reactive fumigator (FD)

**Company (Importer) :** **Kwizda-France SAS**  
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**Fabricant matière active :** SUMITOMO Deutschland GmbH - 40474 Düsseldorf, Allemagne.

**2. HAZARDS IDENTIFICATION****Code letter and hazard designation of the product :****Xn: harmful****N : Dangerous for the environment****Risk phrases :**

R41 Risk of serious damage to eyes.  
R42 may cause sensitization by inhalation.  
R44 Risk of explosion if heated under confinement.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Safety phrases :**

S1/2 Keep locked up and out of reach of children.  
S23 Do not breathe fumes.  
S25 Avoid contact with eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.  
S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

### 3. COMPOSITION / DATA ON COMPONENTS

Water reactive fumigator for household user containing 7,2% of Cyphenothrin

Nom	N°CAS	Concentration	Classification 67/548/EEC	Classification CLP (R1272/2008)
<b>Active(s) ingredient(s)</b>				
Cyphénothrin (commercial: name Gokilaht)	39515-40-7	7,2% (m/m)	Xn harmful, R20/22, N Dangerous for the environment R50/R53	GHS07, GHS09, H302, H400, H410
<b>Other(s) component(s)</b>				
Azodicarbonamide	123-77-3	90.8% (m/m)	E; Xn; R2-R42	GHS08, H334

#### Exothermic substance :

- Quick lime (calcium oxide)

Quantity: 65g of quick lime for a capsule of 10g  
76g of quick lime for a capsule of 20g  
255g of quick lime for a capsule of 100g

CAS number : 1305-78-8 EINECS : 215-138-9

Classification : Xi.irritant, R41

### 4. FIRST AID MEASURES

#### For inhalation toxicity,

May cause intense coughing by inhalation of smoke. This coughing is temporary, but if coughing does not stop, or other abnormal symptoms appear, immediately remove person to fresh air and rest quietly, for first-aid. If breathing is weak, loosen clothing and open airway. Seek medical attention, and inform that this product is a pyrethroid insecticide.

#### Skin contact

Take off contaminated close and shoes. Wash contaminated area with soap and water. If pain or other abnormal symptoms occurs, seek medical attention immediately.

#### Eye contact

May cause mild irritation if in contact during fumigation. Wash with fresh water for first-aid. Remove contact lenses if possible, and wash eye and behind eye-lids thoroughly. If pain or other abnormal symptoms occurs, seek medical advice immediately.

#### Ingestion

In case of accidental ingestion, wash mouth with water, give 1-2cups of water or milk to drink, and if conscious induce vomiting. Seek medical advice immediately, informing this product is a pyrethroid insecticide.

### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water. Fight larger fires with alcohol resistant foam.  
Do not use water.

#### Special protective equipment

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Fire fighting procedures**

This product is sealed in an aluminum package and also a plastic container. It has no special cautions, but this product consists calcium oxide, and may generate heat by reaction with water. (Product under normal storage conditions will not generate heat by coming in contact with water.)

**6. ACCIDENTAL RELEASE MEASURES****Person related safety precautions**

wear gloves. Provide adequate ventilation.

**Measures for environmental protection**

Do not allow product to reach sewage system or water bodies.

**Steps to be taken**

Avoid contact with water, sweep up into container, dispose of according to point 13.

**Spill clean up methods**

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

**Incompatibles**

Protect product from water.

**7. HANDLING AND STORAGE****Handling Caution**

Remove or cover food, drinks, infant toys, feedstuff so as not to come in contact with chemical.

Remove all pets, including birds and fishes, and house plants outside areas to be treated.

Smoke will start generating after fumigator can is set. Exit area.

Fumigator can will become hot after exposure to water. Do not touch directly with hand.

Re-enter treated area after 2 hours or more from setting product. Open all doors and windows to ventilate. Re- enter after area is ventilated.

Fire, smoke alarm and gas alarm may be activated by usage of product. Do not place directly below fire, smoke or gas alarm, and put plastic covering on alarms while using product. Watch out for open flames or other source of ignition, and remove cover from alarms after use of product.

Cover or remove steel, copper, or brass products from areas to be treated, for product may cause change of color.

Cover all precision mechanical equipment, such as personal computers, game machines, audio device and others, and store tapes and disks in a container, for product may cause damage. Do not use in areas with a large sized computer.

Do not use this product for infestation of bed clothing.

Pour indicated amount of water into the container. Do not put too much water in.

If clothing and beddings are contaminated, dry in the sun or brush off chemical. If dishes are contaminated, wash well with water.

Use product as soon as aluminum package is opened.

**Safety measure**

Take caution not to inhale or touch fumigated chemicals, especially if allergic, ill, pregnant, or under-age.

Re-enter room after more than 2 hours from treatment.

If any abnormal symptoms appear, seek medical advice, informing this product is a pyrethroid and oxadiazole mixture insecticide. If possible, show this MSDS to medical experts.

**Storage**

Keep in its original sealed container. Store in a cool, dry ventilated area away from children, food stuffs and feed. Protect product from water.

**8. EXPOSURE CONTROL / PERSONAL MEASURES****Exposure limit:**

May be irritating to the throat if inhaled during the activity.

**Engineering measures:**

Good ventilation is adequate after use.

**Control parameters:**

not relevant

**Personal protective equipment:****respiratory**

In case of brief exposure use breathing filter apparatus. If prolonged or intensive use respirator with independent air circulation.

**Eye**

Goggles

**body**

**Wear protective clothing**

**Hygiene measures:**

Wash hands before breaks and after handling, do not stay in the room during application.

Personal protective equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:** plastic box containing a capsule.

**Form:** granules.

**Color:** Yellow

**Odor:** flavored

**PH value:** not relevant

**Explosive properties:** not relevant

**Boiling point:** not relevant

**Decomposition temperature:** 128 ° C

**Flash point of the active ingredient:** + 130 °

**Self-ignition Temperature:** not relevant

**Density of the active ingredient:** 1.085 g/cm<sup>3</sup> at 25 ° C

**Density of the formulation:** 595 g / l

**Solubility (active):** - insoluble in water (<10 g / l at 25 ° C)

**Soluble in Xylol**> 500 g / l at 24 ° C.

**Volatility:**  $8.7 \times 10^{-6}$  mmHg (20 ° C),  $10^{-6}$  3.0 mmHg (25 ° C)

## 10. STABILITY AND REACTIVITY

### Stability

Stable under normal temperature conditions.

See point 7

### Dangerous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). See the 2 paragraphs hazards identification

### Materials to be avoided

Oxidizing agents and water.

### Explosive properties

Non-explosive product (according to tests guideline 1.14 of Directive 92/69/EEC)

## 11. TOXICOLOGICAL INFORMATION

### Data for the active ingredient Cyphenothrin:

LD<sub>50</sub> oral male rat : 318 mg/kg.

LD<sub>50</sub> oral female rat : 419 mg/kg.

LD<sub>50</sub> dermal female rat : > 2000 mg/kg.

LC<sub>50</sub> inhalation rat : > 1.85 mg/l/4h

### Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

### Ingestion

May cause discomfort if swallowed.

### Skin contact

Liquid may irritate skin.

### Eye contact

Spray and vapour in the eyes may cause irritation and smarting.

### Health warning

Synthetic pyrethroids can produce parasthesias. Typically, symptoms begin several hours after cutaneous exposure, peaks within 12 hours and resolves within about 24 hours.

### Medical symptoms

Prolonged or repeated exposure may cause: Nausea, vomiting. Diarrhoea. Headache.

Tremors, convulsions.

## 12. ECOLOGICAL INFORMATIONS

### Ecotoxicity of the active ingredient

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LC 50, 96 Hrs, FISH mg/l 0.34 µg/l  
 EC 50, 48 Hrs, DAPHNIA, 0.43 µg/l  
 IC 50, 72 Hrs, ALGAE, mg/l >0.014 mg a.i./l

**Bioaccumulation**

No data available on bioaccumulation.

**Acute fish toxicity**

Very toxic to aquatic organisms.

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Product**

Dispose of used product with household garbage unless specific local regulation recommends different procedure.

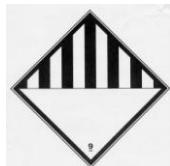
**Packaging**

Disposal must be made according to local regulation regarding plastics.

<b>14. TRANSPORT INFORMATION</b>
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**14-1 A.D.R (By road)**

UN number : 3077

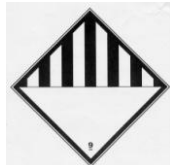


transport Assimilation : Environmentally hazardous substance, liquid, n.o.s.  
(cyphenothrin)

Class : 9  
 Item number : M7  
 Label : 9  
 Hasard Code : 90

**14-2. I.M.D.G. (by sea)**

UN number : 3077



Transport assimilation : Environmentally hazardous substance, solid, n.o.s.  
(cyphenothrin)

Class : 9  
 Group : III, page 9029  
 Label : 9  
 Mark : Marine pollutant.

## Remark :

Classification code : M6  
 Limited quantities : LQ7  
 Unit of packaging : 6kg  
 Package : 30kg  
 1.1.3.6 : 1000kg

**14-3. O.A.C.I. (by air)**

UN number : 1910



Transport assimilation : Calcium oxide  
 Class : 8  
 Packaging group : III  
 Label : 8  
 Passengers : 822  
 Cargo : 823

**15. REGULATORY INFORMATION**

This formulation is beyond the scope of Regulation (EC) No 2037/2000 of European Parliament and the Council of 29 June 2000 on substances that deplete the ozone layer.

This formulation is beyond the scope of Regulation (EC) No 850/2004 of the European Parliament and the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

This formulation is beyond the scope of Regulation (EC) No 689/2008 of the European Parliament and the Council of 17 June 2008 concerning the export and import of dangerous chemicals.

This formulation is not subject to special provisions for the protection of human health or the environment at Community level.

**16. OTHER INFORMATION**

**Risk phrases of paragraph 3 :**  
**(Do not concern the final product)**

R2 Risk of explosion by shock, friction, fire or other sources of ignition.  
 R20/22 Harmful by inhalation or if swallowed.  
 R42 May cause sensitisation by inhalation.  
 R44 Risk of explosion if heated under confinement.

H302 : Harmful if swallowed.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H400 : Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Updates:**

- Paragraph 2 : adding the classification of the product and update of the classification of the product
- Paragraph 3 : Update of the Bifenthrin classification, adding of all the classified components (for the concentrations > 0,1% w/w) and adding CLP classification,
- Paragraph 9 : modification of the pH value and density,
- Paragraph 15,
- Paragraph 16 : update of the list of regulatory sentences.

*The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.*