



Biocides

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY

#### 1.1 Product identifier

Product : **DOBOL Fumigator**

#### 1.2 Identified uses

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

#### 1.3 Supplier's details

Company : **Kwizda-France S.A.**  
30 avenue de l'Amiral Lemonnier  
78160 Marly-le-Roi  
Tel. + 33 (0)1.39.16.09.69  
Fax. + 33 (0)1.39.16.47.07

Active ingredient supplier SUMITOMO Deutschland GmbH - 40474 Düsseldorf, Allemagne.

#### 1.4 Emergency call

Anti-poison center from Paris : + 00 33 (0)1 40 05 48 48  
ORFILA ( INRS) +33(0)1 45 42 59 59

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008



GHS09



GHS08



GHS07

Signal word : **DANGER**

Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye Dam. 2	H319 Causes serious eye irritation.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.
STOT SE 3	H335 May cause respiratory irritation.

Hazard-determining components of labelling:

- Calcium oxide
- C,C'-azodi(formamide)

## 2.2 Label elements

Identification symbol and letter

### Classification according to Regulation (EC) No 1272/2008



**GHS07**



**GHS09**



**GHS08**

**Signal word : DANGER**

Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye Dam. 2	H319 Causes serious eye damage.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.
STOT SE 3	H335 May cause respiratory irritation.

### **Precautionary statement:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children. (amateur only)  
P103 Read label before use. (amateur only)  
P261 Avoid breathing mist.  
P273 Avoid release to the environment.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P341+P342 +P311 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
P405+P403+P233 Store locked up in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Other hazards

**Results of PBT and vPvB assessment :** Not applicable.

## **3. COMPOSITION / INFORMATION ON COMPONENTS**

**Chemical characterization:** mixture

**Description:** Water reactive fumigator containing 7,2% of Cyphenothrin

Name	N°CAS / EC	Concentration	Classification 67/548/EEC	CLP (R1272/2008)	Classification
<b>Active ingredient(s)</b>					
Cyphenothrin (commercial: name Gokilaht)	39515-40-7	7,2% (m/m)	Xn harmful, R20/22, N Dangerous for the environment R50/R53	GHS07, GHS09, Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332	

### **Other components**

Azodicarbonamide	123-77-3	90.8% (m/m)	E; Xn; R2-R42	GHS08 , Resp. Sens. 1, H334
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#### **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, R37/38- R41

## **4. FIRST AID MEASURES**

### **4.1 Description of first aid measures**

In case of unconsciousness place patient stably in side position for transportation.

#### **After 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.

#### **After eye contact**

May cause mild irritation if in contact during fumigation. Rinse opened eye for several minutes under running water. Remove contact lenses if possible, and wash eye and behind eye-lids thoroughly. Seek medical advice immediately.

#### **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor.

#### **After swallowing**

Do not induce vomiting. Rinse out mouth and then drink plenty of water. Seek medical advice immediately, informing this product is a pyrethroid insecticide.

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

No further relevant information available

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

No further relevant information available

## **5. FIREFIGHTING MEASURES**

### **5.1 Extinguishing media**

CO<sub>2</sub>, dry chemical powder, foam. Do not use water.

### **5.2 Special hazards arising from the substance or mixture**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

### **5.3 Advice for firefighters**

Wear self-contained respiratory equipment and full protective suit

#### **Other recommendations**

**For safety reasons unsuitable extinguishing agents:** water spray/water with full jet if you cannot contain runoff to prevent entry into water or drainage systems.

In the case of fire wear self-contained respiratory equipment and full protective suit. Contain runoff to prevent entry into water or drainage systems.

## **6. ACCIDENTAL RELEASE MEASURE**

### **6.1 Personal precautions, protective equipment and emergency procedure :**

Keep unprotected persons away. Do not breathe dust. Do not breathe vapours. Avoid contact with skin and eyes.

Please notice instructions for person-related safety precautions and wear protective equipment (see 8.)

### **6.2 Environmental precautions**

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case product reaches water or sewage system.

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

Pick up mechanically the solid product into a container suitable for its recovery or disposal. Ensure adequate ventilation.

Place into lockable, labelled salvage container for disposal according to the regulations.

### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See section 13 for disposal information.

## **7. HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid contact with skin and eyes.

If dust/smoke is developed, avoid breathing dust/smoke.

Make sure that all applicable workplace limits are observed.

Keep away humidity and water.

Avoid contact with water.

Protect from fire.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Technical measures**

Store in tightly closed containers in a cool, well ventilated and dry place. Do not store food, beverages and animal feeding stuffs in the storage area. Keep container tightly sealed.

Only store in the original packaging. Do not re-use the empty packaging. Sensitive to frost.

Keep away humidity and water. Protect from fire.

#### **Temperature**

Ambient

### **7.3 Specific end use(s)**

Use only according to instructions

## 8. EXPOSURE CONTROL / PERSONNAL PROTECTION

### 8.1 Control parameters

#### **Ingredients with limit values that require monitoring at the workplace:**

##### **1305-78-8 Calcium oxide**

WEL (Great Britain)

Long-term value: 2 mg/m<sup>3</sup>

##### **123-77-3 C,C'-azodi(formamide)**

WEL (Great Britain)

Short-term value: 3.0 mg/m<sup>3</sup>

Long-term value: 1.0 mg/m<sup>3</sup>

### 8.2 Exposure control

#### **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and food.

Instantly remove any contaminated garments.

Do not inhale dust / smoke / mist.

Do not breathe vapours.

Wash hands during breaks and at the end of the work.

The usual precautionary measures are to be adhered to when handling chemicals

#### **Respiratory protection:**



Use breathing protection in case of dust formation. In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

#### **Protection of hands:**



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

#### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection:**



Tightly sealed safety glasses

**Body protection:** Protective work clothing

**Limitation and supervision of exposure into the environment**

Do not allow to enter sewers/ surface or ground water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Form:** Granulate

**Colour:** yellow to orange

**Smell:** characteristic

**Odour threshold:** no data available

**pH-value:** no data available

**Melting point/Melting range:** not determined

**Boiling point/Boiling range:** not determined

**Flash point:** not applicable

**Inflammability (solid, gaseous)** Product is not flammable.

**Ignition temperature:** not determined

**Decomposition temperature:** not determined

**Self-inflammability:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive.

**Critical values for explosion:**

**Lower:** no data available

**Upper:** no data available

**Oxidizing properties** not applicable

**Vapor pressure:** not determined

**Density:** not determined

**Solubility in / Miscibility with**

**Water:** Reacts with water.

**Partition coefficient (n-octanol/water):** not applicable

**Viscosity:**

**dynamic:** not applicable

**kinematic:** not applicable

### 9.2 Other informations

No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under usual conditions

### 10.2 Chemical stability

Avoid thermal decomposition do not overheat.

### 10.3 Possibility of hazardous reaction

No hazardous reactions known if used according to specifications

#### **10.4 Conditions to avoid**

No further relevant information available.

#### **10.5 Incompatible materials**

Strong oxidizing agents, water

#### **10.6 Hazardous decomposition products**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
Decomposes in contact with water under formation of insecticidal smoke.

### **11. TOXICOLOGICAL INFORMATION**

#### **11.1 Information on toxicological effects**

##### **LD/LC50 values relevant for classification:**

Oral LD50	> 10000 mg/kg (rat) product
Dermal LD50	> 5000 mg/kg (rat) product
Inhalative LC50/4h	> 1050 mg/m <sup>3</sup> (rat) Product

##### **Ingredients acute toxicity:**

##### **C,C'-azodi(formamide) (CAS 123-77-3)**

Oral LD50	> 6800 mg/kg (rat)
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##### **alpha-cyano-3-phenoxybenzyl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate (CAS 39515-40-7)**

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 :	> 5000 mg/kg.
LC <sub>50</sub> inhalation rat :	> 1.85 mg/l/4h

##### **Primary irritant effect:**

- **on the skin:** Slightly irritating
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible by inhalation.

##### **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

According to present knowledge no CMR-effects known

##### **Additional toxicological information:**

No further information available

### **12. ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

##### **Ecotoxicical effects:**

##### **Calcium oxide (CAS 1305-78-8)**

EC50/48 h	159.6 mg/l (water flea (daphnia magna))
LC50/24 h	160 mg/l (freshwater shrimp (Gammarus. sp.))
LC50/96 h	1070 mg/l (carp (cyprinus carpio))

**Alpha-cyano-3-phenoxybenzyl 2,2-dimethyl-3-(2-methylprop-1enyl)cyclopropanecarboxylate  
(CAS 39515-40-7)**

EC50/48 h 0.00043 mg/l (water flea (daphnia magna))

LC50/96 h 0.00037 mg/l (rainbow trout (oncorhynchus mykiss))

**General notes:**

Do not allow product to reach ground water, water course or sewage system

**12.2 persistence and degradability**

No further data available

**12.3 Bioaccumulative potential**

No further data available

**12.4 Mobility in soil**

No further data available

**12.5 Results of PBT and vPvB assessment**

No further data available

**12.6 Other adverse effects**

No further data available

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations. Hand over to disposers of hazardous waste.

**Disposal of soiled packaging**

Do not reuse empty contaminated packaging for other purposes; dispose according to official regulations.

**14. Transport information**

**14.1 UN number**

ADR, IMDG UN3077  
IATA UN1910

**14.2 Un proper shipping name**

Environmentally hazardous substance, solid, n.o.s. (cyphenothrin)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MARINE POLLUTANT  
CALCIUM OXIDE

**14.3 Transport hazard class**

ADR, IMDG





Class 9 (M7) Miscellaneous dangerous substances and articles.

#### IATA



Class 8 Corrosive substances

#### **14.4 packing group**

III

#### **14.5 Environmental hazards**

Symbol (fish and tree)

#### **14.6 Special precaution for user**

Warning: Miscellaneous dangerous substances and articles.

**Kemler Number:** 90

**EMS Number:** F-A,S-F

#### **14.7 transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

#### **Other informations :**

#### **ADR additional informations**

**Excepted quantities (EQ):** E1

· **Limited quantities (LQ):** 5 kg

· **Transport category:** 2

· **Tunnel restriction code:** D

### **15. Regulatory information**

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

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.

Quantity limits according to "EC Seveso directive" should be observed.

#### **15.2 Chemical safety assessment**

No chemical safety assessment available

## 16. OTHER INFORMATIONS

R-phrases and H-phrases paragraph 3

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R2 Risk of explosion by shock, friction, fire or other sources of ignition.

R20/22 Harmful by inhalation and if swallowed.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R42 May cause sensitisation by inhalation.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **Abbreviations and acronyms:**

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

### **Updates:**

This document differs from the previous version in the following areas:

- Section 2 : CLP classification corrected

Also refer to technical instructions for use.

*The data contained in this material safety data sheet are based on the current level of scientific and technical knowledge in this domain and at the date of the last update and are given bona fide.*

*These data cannot be used to confirm the product properties and do not constitute a legal or a contractual covenant. These data shall not be used as an order basis.*

*This sheet completes the technical data but do not replace them.*

*The user bears full responsibility for knowing and applying the legal texts, the handling procedures and the safety measures linked to the product use.*

*The entirety of the regulatory and legal prescriptions mentioned can only be used as a support to help the user fulfilling his duty in the use of the aforementioned product.*

*It is advised to consult the national or international measures that can apply because the measures contained in this sheet should not be considered to be exhaustive.*

*This document does not exempt the user to make sure that others obligations devolve upon himself in particular regarding to product's possession, use or specification and for which he is fully responsible.*