

# Safety data sheet

according to 1907/2006/EC, Article 31

print: 09.11.2015

rev n°: 2

Revision date: 09.11.2015

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **DRAGO FIX**

kind of formulation: wettable powder (WP)

Article number: 1268

Use fungicide

Registration number REACH Not applicable.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant use: Agriculture.

Application of the substance / the mixture Agricultural chemicals

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

#### Manufacturer/Supplier:

SIPCAM S.p.A. - Via Vittorio Veneto, 81 - 26857 Salerano sul Lambro (LO) - Italy

TEL.: +39 0371 5961 - FAX +39 0371 71408

#### 1.4 Emergency telephone number:

Emergency phone: + 39 0371 5961 (24/24h)

For any questions regarding this MSDS please contact:

msds@sipcam.it

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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



GHS08 health hazard

Repr. 2

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT RE 2

H373 May cause damage to the thymus and the eyes through prolonged or repeated exposure.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Sens. 1

H317 May cause an allergic skin reaction.

### 2.2 Label elements

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

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS07



GHS08



GHS09

Signal word *Warning*

#### Hazard-determining components of labelling:

Mancozeb

Cymoxanil

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**Hazard statements**

- H317 May cause an allergic skin reaction.  
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
 H373 May cause damage to the thymus and the eyes through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

- P260 Do not breathe dust.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P391 Collect spillage.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures**

Description: Mixture of the substances listed below with harmless additions.

**Dangerous components:**

N° CAS	Designation	R-Phrases	%
CAS: 8018-01-7	Mancozeb		57.2%
	⚠ Repr. 2, H361d; ⚠ Aquatic Acute 1, H400 (M=10); ⚠ Skin Sens. 1, H317		
CAS: 57966-95-7 EINECS: 261-043-0	Cymoxanil		14.2%
	⚠ Repr. 2, H361fd; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317		

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation**

Keep affected persons into the open air, position comfortably and keep warm.

In case of unconsciousness bring patient into stable side position for transport.

**After skin contact** Instantly wash with water and soap and rinse thoroughly.**After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

**After swallowing**

Rinse out mouth without swallowing, do not induce vomiting.

Call a doctor immediately.

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

Each active substance may cause separately the following effects:

MANCOZEB - Skin: erythema, dermatitis, sensitization. Eye: conjunctivitis, sensitization. Respiratory system: irritation, asthma, sensitization. CNS: ataxia, headache, daze, depression, hyporeflexia. In case of alcohol assumption nausea, vomiting, sweating, strong thirst, precordial pain, tachycardia, vision, dizziness,

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hypotension. After a few hours the face turns from purple to pale, hypotension gets worse up to loss of consciousness and heart failure .

Cymoxanil: conjunctivitis, rhinitis, skin and throat irritation. Ingestion can cause gastroenteritis, nausea, vomiting and diarrhea. Sub-icterus and haematuria can occur as well.

Chlorothalonil: irritant for skin and respiratory tract. Irritant for eyes with risk of corneal opacity. Sensitization. Kidney damages and ataxia.

**Danger** Condition may deteriorate with alcohol consumption.

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

Treat symptomatically and supportively

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder. Fight larger fires with water spray or alcohol-resistant foam. Do not use a direct stream of water to extinguish.

**For safety reasons unsuitable extinguishing agents** Avoid full water jet.

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

Can be released in case of fire:

Sulphur oxides (SO<sub>x</sub>)

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

### 5.3 Advice for firefighters

#### Protective equipment:

Put on breathing apparatus.

Do not inhale explosion gases or combustion gases.

Wear full protective suit.

## SECTION 6: Accidental release measures

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

Put on breathing apparatus.

Wear protective equipment. In case of inadequate ventilation, wear protective mask (brown filter). Keep unprotected persons away.

### 6.2 Environmental precautions:

Avoid ignition sources.

Do not allow to enter drainage system, surface or ground water.

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

Collect mechanically.

Ensure adequate ventilation.

### 6.4 Reference to other sections

No dangerous materials are released.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Prevent formation of dust.

Open and handle container with care.

Wear personal protective equipments (PPE).

Keep away from foodstuffs, beverages and food.

Avoid contact with the eyes and skin.

**Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

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

Store the product closed in its original containers at temperature <math><40\text{ }^{\circ}\text{C}</math> in a cool and dry place, away from heat sources and direct sunlight.

**Requirements to be met by storerooms and containers:** Store in cool location.

**Information about storage in one common storage facility:**

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

**7.3 Specific end use(s)**

Agriculture

To be applied strictly for the uses described in the label.

### SECTION 8: Exposure controls/personal protection

**Additional information about design of technical systems:** Eye wash stations shall be available in the floor.

**8.1 Control parameters****Components with limit values that require monitoring at the workplace:**

57966-95-7 Cymoxanil (14.2%)
TWA 5 mg/m <sup>3</sup>

**Regular medical monitoring** Quarterly medical monitoring is recommended for operators.

**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures for handling chemicals shall be observed.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

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

**Breathing equipment:**

Breathing protection recommended.

**Protection of hands:**

Protective gloves (rubber or plastic).

**Material of gloves** Rubber gloves

**Eye protection:**

Safety glasses

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Body protection:

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Protective work clothing.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

Form:	Solid.
Colour:	Yellow
Odour:	Characteristic

##### Change in condition

Boiling point/Boiling range: Not applicable.

Flash point: Not applicable

Self-inflammability: Product is not selfigniting.

Danger of explosion: Product is not explosive.

Density at 20 °C 0.3-0.4 g/cm<sup>3</sup>

##### Solubility in / Miscibility with

Water: Dispersible

##### Solvent content:

Organic solvents:	0.0 %
Water:	0.0 %

Solids content: 100.0 %

9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

10.1 Reactivity The product does not present hazards by its reactivity.

10.2 Chemical stability Stable under the recommended handling and storage conditions (see section 7).

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions are known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: None in standard storage conditions.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### LD/LC50 values that are relevant for classification:

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50 (4 h)	>5.08 mg/l (rat)

##### 8018-01-7 Mancozeb

Oral	LD50	>5000 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50 (4 h)	>5.1 mg/l (rat)
<b>57966-95-7 Cymoxanil</b>		
Oral	LD50	960 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50 (4 h)	>5.6 mg/l (rat)
<b>ADI (acceptable daily intake) mg/kg/b.w./day</b>		
<b>8018-01-7 Mancozeb</b>		
ADI	0.05 mg/kg/bw/d (rat)	
<b>57966-95-7 Cymoxanil</b>		
ADI	0.013 mg/kg/bw/d (-)	
<b>NOEL (no observable effect level)</b>		
<b>57966-95-7 Cymoxanil</b>		
NOEL	1.6 (2 y) mg/kg (dog)	
	4.2 (2 y) mg/kg (mice)	
	4.1 (2 y) mg/kg (rat)	

**Primary irritant effect:****Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Acute effects (acute toxicity, irritation and corrosivity)** No further information available.**Sensitisation** May cause sensitisation by skin contact.**CMR effects (cancerogenity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity**

Suspected of damaging fertility. Suspected of damaging the unborn child.

**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure**

May cause damage to the thymus and the eyes through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****8018-01-7 Mancozeb**

EC50 (48h)	0.073 mg/l (daphnia magna)
EC50 (96h)	0.088 mg/l (rainbow trout (oncorhynchus mykiss))
LC 50	0.044 mg/l (algae pseudokirchneriella subcapitata) (120 h)

**57966-95-7 Cymoxanil**

EC50 (72h)	1.21 mg/l (algae selenastrum capricornutum)
	0.122 mg/l (algae anabaena flos-aquae)
EC50 (96h)	29 mg/l (bluegill sunfish (Leponis macrochirus))
	61 mg/l (rainbow trout (oncorhynchus mykiss))
LC 50	27 mg/l (daphnia magna)
	>2000 mg/l (bobwhite quail)

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**Environmental toxicity**

**8018-01-7 Mancozeb**

Oral	LD 50	>100 µg/bee (bees) >2000 mg/kg (mallard duck) >3200 mg/kg (bobwhite quail) >299 mg/kg (earthworms) (14 d)
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Dermal	LD 50	>100 µg/bee (bees)
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**57966-95-7 Cymoxanil**

Oral	LD 50	>85.3 µg/bee (bees) 2208 mg/kg (earthworms)
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**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential**

**57966-95-7 Cymoxanil**

Octanol / Water partition coefficient	0.59 - 0.67 (partition n-octanol/water)
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**12.4 Mobility in soil** No further relevant information available.

**Ecotoxicological effects:**

**Remark:** Very toxic for fish

**DT 50 (active ingredient)**

**8018-01-7 Mancozeb**

DT 50	6-14 days (soil)
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**57966-95-7 Cymoxanil**

DT 50	0.75-1.5 days (soil) soil pH = 5.7-7.8 <1 days (water)
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**Other information:** the product is classified as at low risk for terrestrial plants

**Additional ecological information:**

**General notes:**

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

**12.5 Results of PBT and vPvB assessment**

**PBT:** None of the ingredients meets the classification requirements.

**vPvB:** None of the ingredients meets the classification requirements.

**12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation**



Must be specially treated under adherence to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

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**SECTION 14: Transport information****14.1 UN-Number**

ADR,RID,ADN, IMDG, IATA

UN3077

**14.2 UN proper shipping name**

ADR/RID/ADN

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (Mancozeb, Cymoxanil)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (Mancozeb, Cymoxanil), MARINE  
POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (Mancozeb, Cymoxanil)**14.3 Transport hazard class(es)**

ADR/RID/ADN

Class  
Label9 (M7) Miscellaneous dangerous substances and articles.  
9

IMDG

Class  
Label9 Miscellaneous dangerous substances and articles.  
9

IATA

Class  
Label9 Miscellaneous dangerous substances and articles.  
9 (P)**14.4 Packing group**

ADR,RID,ADN, IATA

III

**14.5 Environmental hazards:**

Marine pollutant:

Yes  
Symbol (fish and tree)

Special marking (ADR/RID/ADN):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

**14.6 Special precautions for user**Warning: Miscellaneous dangerous substances and  
articles.

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.

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**Transport/Additional information:****ADR/RID/ADN****Limited quantities (LQ)**

5 kg

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

**Transport category**

3

**Tunnel restriction code**

E

**Remarks:**

Transport in Limited Quantities only in suitable packaging.

**Packaging group:****UN "Model Regulation":**UN3077, ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (Mancozeb, Cymoxanil), 9,  
III**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

In case of emergency, contact your local Poison Centre through Global Health observatory data of the World Health Organization.

**Department issuing data specification sheet:** Product safety department.

**Contact:**

Product safety department

SIPCAM Stabilimento di Salerano sul Lambro (LO)

TEL.: +39 03715961 - FAX : +39 037171408

**H statements of components:**

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to the thymus and the eyes through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

\* Data compared to the previous version altered.

22.03.2005