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# MULTICAP

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

### 1.1 Product identifier

Trade name : Multicap

Authorisation number : MAPP 17652

Active substance : Captan (80% w/w)  
EC No.: 205-087-0  
CAS No.: 133-06-2  
IUPAC Name : 2-[(trichloromethyl)sulfanyl]-3a,4,7,7a-tetrahydro-1H-isoindole-1,3(2H)-dione

Substance No. : 300000000611

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

Use of the Substance/Mixture : Fungicide for professional use.

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

Address : Belcrop BV  
Tiensestraat 300  
3400 Landen  
Belgium

Telephone : +32 11 59 83 60

Telefax : +32 11 59 83 61

E-mail address Contact Point : info@belcrop.be

### 1.4 Emergency telephone number

Please call the local emergency number.  
Emergency number in Belgium (24h/24, 7d/7): +32 11 69 79 80

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (Regulation (EC) No. 1272/2008)

Serious eye damage/eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

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### 2.2 Label elements

#### Labelling (Regulation (EC) No. 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H351 - Suspected of causing cancer  
H400 - Very toxic to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements : P102 - Keep out of reach of children  
P201 - Obtain special instructions before use  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P501 - Dispose of contents/ container to an approved waste disposal plant  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

EU Specific Hazard Statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Additional phrases for PPP : SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

### 2.3 Other hazards

PBT & vPvB : The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information : None known.

Persistent Organic Pollutants : Not applicable.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	REACH Registration Number
Captan	133-06-2	205-087-0	613-044-00-6	75 - 85	Acute Tox. 3 (H331) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Carc. 2 (H351) Aquatic Acute 1 (H400)		M=10	No data available
Alkyl-naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	614-476-8		2 - 4	Eye Irrit. 2 (H319)			No data available
Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt disodium maleate	102980-04-1	-		1 - 4	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)			No data available
	371-47-1	206-738-1		< 1	Acute Tox. 4 (H302) Skin Sens. 1B (H317) STOT SE 3 (H335)			No data available
Quartz (SiO <sub>2</sub> )	14808-60-7	238-878-4		< 0.1	No data available			No data available
Toluene	108-88-3	203-625-9	601-021-00-3	< 0.01	Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)			01-2119471310-51
Formaldehyde	50-00-0	200-001-8	605-001-00-5	< 0.01	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 1B (H350)	Eye Irrit. 2 : 5%≤C<25% Skin Corr. 1B : C≥25% Skin Irrit. 2 : 5%≤C<25% Skin Sens. 1 : C≥0.2% STOT SE 3 : C≥5%		01-2119488953-20

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Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available.

**Full text of H- and EUH-phrases: see section 16**

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                                    |  |
|------------------------------------|--|
| General advice                     | : Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.  |
| If inhaled:                        | : Remove to fresh air.   |
| In case of skin contact:           | : Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.   |
| In case of eye contact:            | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| If swallowed:                      | : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.   |
| Self-protection of the first aider | : Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).  |

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

- |          |   |
|----------|---|
| Symptoms | : Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. |
|----------|---|

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

- |                    |  |
|--------------------|--|
| Note to physicians | : May cause sensitization in susceptible persons. Treat symptomatically. |
|--------------------|--|

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : Do not scatter spilled material with high pressure water streams.                                       |

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

Specific hazards arising from the chemical : Product is or contains a sensitizer. May cause sensitization by skin contact.

### **5.3 Advice for firefighters**

Special protective equipment for fire-fighters : Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

Personal precautions : Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information : Refer to protective measures listed in Sections 7 and 8.

For emergency responders : Use personal protection recommended in Section 8.

### **6.2 Environmental precautions**

Environmental precautions : See Section 12 for additional Ecological Information.

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

Methods for containment : Prevent further leakage or spillage if safe to do so.

Methods for cleaning up : Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards : Clean contaminated objects and areas thoroughly observing environmental regulations.

### **6.4 Reference to other sections**

See Section 8 for exposure controls/personal protection. See Section 13 for disposal considerations.

## **SECTION 7: Handling and storage**

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

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

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skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

General hygiene considerations : Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

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

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

### 7.3 Specific end use(s)

See Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Exposure limits

Chemical name	European Union
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup>
phenol 108-95-2	TWA: 2 ppm TWA: 8 mg/m <sup>3</sup> STEL: 4 ppm STEL: 16 mg/m <sup>3</sup> *
Toluene 108-88-3	TWA: 50 ppm TWA: 192 mg/m <sup>3</sup> *
Formaldehyde 50-00-0	TWA: 0.37 mg/m <sup>3</sup> TWA: 0.3 ppm *

Derived No Effect Level (DNEL): No information available.

Predicted No Effect Concentration (PNEC): No information available.

### 8.2 Exposure controls

#### Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

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- Hand protection : Wear suitable gloves.
- Eye protection : Wear safety glasses with side shields (or goggles).
- Skin and body protection : Wear suitable protective clothing.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

### Engineering controls

- General advice : Ensure adequate ventilation, especially in confined areas.

### Environmental exposure controls

- General advice : Local authorities should be advised if significant spillages cannot be contained.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
Physical state	: granules		
Color	: Beige		
Odor	: Aromatic		
Odor threshold	: No data available		
pH	: 8.9 – 9.9	CIPAC MT 75.3	Solution (1%)
Melting point/freezing point °C	: No data available		
Boiling point/boiling range °C	: No data available		
Flash point °C	: No data available		Not applicable
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not flammable	EEC A.10	
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: No data available		
Vapor density	: No data available		
Relative density	: No data available		
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See section 12 for additional Ecological Information
Autoignition temperature °C	: 382 °C	EEC A.16	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm²/s 40 °C	: No data available		Not applicable
Surface tension	: No data available		
Particle size	125 and 500 µm	CIPAC MT170	

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### 9.2 Other information

Bulk density g/ml : 0.62 CIPAC MT 186

#### 9.2.1 Information with regard to physical hazard classes

Explosive properties : Not an explosive

Oxidizing properties : Not oxidizing

#### 9.2.2 Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

Explosion data

Sensitivity to mechanical impact None

Sensitivity to static discharge None

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

None known based on information supplied.

### 10.5 Incompatible materials

None known based on information supplied.

### 10.6 Hazardous decomposition products

None known based on information supplied.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

#### Acute toxicity

	Values	Species	Method	Remarks
Oral LD50 mg/kg	: >2000	Rat	OECD 401	
Dermal LD50 mg/kg	: >5000	Rat	OPPTS 870.1200	
Inhalation LC50 mg/l	: No data available			Not applicable – Granules



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<b>Skin corrosion/irritation</b>	:	Non-irritating to the skin	Rabbit	OECD 404
<b>Serious eye damage/eye irritation</b>	:	Irritating to the eyes	Rabbit	OECD 405
<b>Sensitization</b>	:	Skin sensitizer	Guinea pig	OECD 406

### Chronic toxicity

#### Germ cell mutagenicity

Chemical name	
Captan	: Not classified

#### Carcinogenicity

Chemical name	
Captan	: H351 – Suspected of causing cancer

#### Reproductive toxicity

Chemical name	
Captan	: Not toxic for the reproductive system

#### STOT – Single exposure

Chemical name	
Captan	: Not classified

#### STOT – Repeated exposure

Chemical name	
Captan	: Not classified

#### Aspiration hazard

Chemical name	
Captan	: Not classified

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

<b>Endocrine disrupting properties</b>	: No information available
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#### 11.2.2. Other information

<b>Other adverse effects</b>	: No information available
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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Fish 96-hours LC50 mg/l</b>	: 0.17	Oncorhynchus mykiss	OECD 203	Static
<b>Crustacea 48-hours EC50 mg/l</b>	: 4.30	Daphnia magna	OECD 202	Semi-static
<b>Algae 72-hours EC50 mg/l</b>	: 4.07	Scenedesmus subspicatus	OECD 201	Static
<b>Other plants EC50 mg/l</b>	: No data available			

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### Chronic aquatic toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	: 0.24	Rainbow trout		
Crustacea NOEC mg/l	: 0.675	Daphnia magna		
Algae NOEC mg/l	: No data available			
Other plants NOEC mg/l	: No data available			

### Terrestrial toxicity

#### Birds Oral LD50 mg/kg

Chemical name		
Captan	: >2000	Mallard Duck

#### Bees Oral LD50 µg/bee

Chemical name	
Captan	: >100

### 12.2 Persistence and degradability

#### Abiotic degradation

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Water DT50 days				
Chemical name				
Captan	: <1			251 °C

#### Soil DT50 days

Chemical name		
Captan	: 0.5 – 5.7	aerobic 251 °C

#### Biodegradation

Chemical name		
Captan	: Not readily biodegradable	OECD 301 B

### 12.3 Bioaccumulative potential

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Partition Coefficient (n-octanol/water) Log Pow			

Chemical name		
Captan	: 2.57	pH 7, 25 °C

#### Bioconcentrationfactor (BCF)

Chemical name	
Captan	: 113 – 250

### 12.4 Mobility in soil

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Adsorption/desorption			

Chemical name		
Captan	: 29 – 198	KOC

### 12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse

Additional ecological information : No additional information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste from residues/unused products : Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging : Improper disposal or reuse of this container may be dangerous and illegal.

Other information : Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

### ADR

14.1	UN number	UN3077
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
	Description	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan), 9, III
14.5	Environmental hazard	Yes
14.6	Special Precautions for Users	
	Special Provisions	274, 335, 601, 375
	Classification code	M7

### RID

14.1	UN number	UN3077
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
	Description	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan), 9, III
14.5	Environmental hazard	Yes

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### 14.6 Special Precautions for Users

**Special Provisions** 274, 335, 375, 601  
**Classification code** M7

### IMDG

**14.1 UN number** UN3077  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan)  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** III  
**Description** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan), 9, III  
**14.5 Environmental hazard** Yes  
**Marine pollutant** P  
**14.6 Special Precautions for Users**  
**Special Provisions** 274, 335, 966, 967, 969  
**EmS-No** F-A, S-F  
**IMDG Stowage and segregation** Category A SW23 No information available  
**14.7 Maritime transport in bulk according to IMO instruments** No information available

### IATA

**14.1 UN number** UN3077  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan)  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** III  
**Description** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan), 9, III  
**14.5 Environmental hazard** Yes  
**14.6 Special Precautions for Users**  
**Special Provisions** A158, A179, A97, A197  
**ERG code** 9L



Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

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### SECTION 15: Regulatory information

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

##### National regulations

Trade name/designation	Registration Number(s)	Date
Not Applicable	Not Applicable	Not Applicable

##### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work..

##### **Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Substance name	Restricted substance according to Annex XVII of REACH	Substance subject to consent according to Annex XIV of REACH
Toluene - 108-88-3	48.	

##### **Persistent Organic Pollutants**

Not applicable

#### 15.2 Chemical safety assessment

A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

### SECTION 16: Other information

#### **Full text of hazard statements referred to under Section 2 and 3.**

H302 - Harmful if swallowed  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H331 - Toxic if inhaled  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

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### Full text of other abbreviations

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE – Acute toxicity estimate; BCF - Bioconcentration factor; bw – Body weight; EC number – European Community number; ECx – Concentration associated with x % response; EmS – Emergency Schedule; ErCx – Concentration associated with x % growth rate response; GLP – Good Laboratory Practice; IATA – International Air Transport Association; IC50 – Half maximal inhibitory concentration; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50 % of a test population (Median Lethal Dose); M-factor – Multiplying factor; N.O.S. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; OECD – Organization for Economic Co-operation and Development; OEL – Occupational exposure limit; PBT – Persistent, Bioaccumulative and Toxic substance; SCL – Specific Concentration Limit; TWA – Time-weighted average; UFI – Unique formula identifier; UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

### Other information

Other information : Complete revision.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.