

Trade name: VALBON**Product no.:** KI 008 C1064/UK**Current version :** 1.0.4, issued: 19.07.2019**Replaced version:** 1.0.3, issued: 19.07.2019**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****VALBON****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Plant protection product

Fungicide

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Certis Europe (GB)

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Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. +44 (0) 1223 894 261

Fax no. +44 (0)1223 891210

e-mail info@certiseurope.co.uk - www.certiseurope.co.uk**Advice on Safety Data Sheet**certis@certiseurope.co.uk**1.4 Emergency telephone number**

Carechem 24 GB +44 870 190 6777

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Acute 1; H400

Carc. 2; H351

Repr. 2; H361

Skin Sens. 1; H317

Classification information

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07



GHS08



GHS09

Signal word

Warning

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Benthiavalicarb – isopropyl

Hazard statement(s)

H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer
 H361 Suspected of damaging fertility or the unborn child
 H400 Very toxic to aquatic life.

Hazard statements (EU)

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.
 P103 Read label before use.
 P260 Do not breathe vapours.
 P263 Avoid contact during pregnancy and while nursing.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P501 Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

2.3 Other hazards

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

solid plant protection formulation

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	mancozeb		
	8018-01-7 - 006-076-00-1 -	Repr. 2; H361d Skin Sens. 1; H317 Aquatic Acute 1; H400	>= 70.00 - < 90.00 %b.w.
2	Benthiavalicarb – isopropyl		
	177406-68-7 - - -	Carc. 2; H351 Skin Sens. 1; H317	< 2.50 %b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 10	-

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

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

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Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash immediately with plenty of water for several minutes.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Call a doctor immediately and show label or packaging. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide; Extinguishing powder; Water spray jet; Foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); chlorine compounds; Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Run-off water from fire fighting must not be discharged into drains or enter surface water. Wear protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not uncontrolled discharge into the subsoil/soil. Notify the authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Do not inhale dust. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

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Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area. Do not inhale dust/fumes/aerosols.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

Storage stability

Value <= 2 year(s)

Requirements for storage rooms and vessels

Store product in closed containers. Protect from heat and direct sunlight.

Incompatible products

Do not store together with foodstuffs. Do not store with combustible materials.

7.3 Specific end use(s)**Industry solution**

Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form/Colour
Solid (free-flowing microgranules)
yellow to brown
Odour
No data available
Odour threshold
No data available

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pH value			
Value	7.2		
Concentration	1	% aqueous solution	
Source	Manufacturer		
Boiling point / boiling range			
No data available			
Melting point / melting range			
No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
No data available			
Auto-ignition temperature			
Value	159	°C	
Method	EC A.16		
Source	Manufacturer		
Oxidising properties			
not oxidizing			
Method	EU A.17		
Explosive properties			
Product does not present an explosion hazard.			
Flammability (solid, gas)			
The product is non-flammable.			
Method	EEC A10		
Source	Manufacturer		
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			
No data available			
Vapour pressure			
No data available			
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
No data available			
Bulk density			
Value	0.680	kg/l	
Method	CIPAC MT 169		
Source	Manufacturer		
Solubility in water			
No data available			
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	mancozeb	8018-01-7	-

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log Pow	1.33
Source	Manufacturer
2	Benthiavalicarb – isopropyl
	177406-68-7
	-
log Pow	2.56
Reference temperature	20-25 °C
Source	Manufacturer
Viscosity	
No data available	

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No reactivity with packaging material after two-year storage at ambient temperature and after accelerated storage at 54°C for 14 days.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid elevated temperatures, moisture and oxygen, which break down the product and induce flammable and toxic gas

10.5 Incompatible materials

Oxidizing agents; strong acids; Quaternary ammonium

10.6 Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity			
No	Product Name		
1	VALBON		
LD50	>	2000	mg/kg
Species	rat		
Method	OECD 401		
Source	Manufacturer		

Acute dermal toxicity			
No	Product Name		
1	VALBON		
LD50	>	2000	mg/kg
Species	rat		
Method	OECD 402		
Source	Manufacturer		

Acute inhalational toxicity			
No	Product Name		
1	VALBON		
LC50	>	5.15	mg/l
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	Manufacturer		

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Skin corrosion/irritation			
No	Product Name		
1	VALBON		
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	Manufacturer		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Product Name		
1	VALBON		
Species	rabbit		
Method	OECD 405		
Source	Manufacturer		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Product Name		
1	VALBON		
Route of exposure	Skin		
Species	guinea pig		
Method	Magnussen/Kligmann-Test		
Source	Manufacturer		
Evaluation	sensitizing		

Germ cell mutagenicity			
No data available			

Reproduction toxicity			
No	Product Name		
1	VALBON		
Source	Manufacturer		
Comments	Possible risk or harm to the unborn child.		
Evaluation/classification	Based on available data, the classification criteria are met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	Benthiavalicarb – isopropyl	177406-68-7	-
Evaluation/classification	Suspected of causing cancer.		

STOT - single exposure			
No data available			

STOT - repeated exposure			
No data available			

Aspiration hazard			
No data available			

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Product Name		
1	VALBON		
LC50	<	1	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	Manufacturer		

Toxicity to fish (chronic)			
No data available			

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Toxicity to Daphnia (acute)			
No	Product Name		
1	VALBON		
EC50	<	1	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	Manufacturer		

Toxicity to Daphnia (chronic)			
No data available			

Toxicity to algae (acute)			
No	Product Name		
1	VALBON		
ErC50	>	1	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Method	OECD 201		
Source	Manufacturer		
EbC50	<	1	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Method	OECD 201		
Source	Manufacturer		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Benthiavalicarb – isopropyl	177406-68-7	-
Value	2	- 3	%
Duration		28	day(s)
Method	CO2 Evolution Test		
Source	Manufacturer		
Evaluation	not readily biodegradable		

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	mancozeb	8018-01-7	-
log Pow		1.33	
Source	Manufacturer		
2	Benthiavalicarb – isopropyl	177406-68-7	-
log Pow		2.56	
Reference temperature		20-25	°C
Source	Manufacturer		

12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	mancozeb	8018-01-7	-
log Koc	2.56	- 3.368	
with reference to	Adsorption		
Source	supplier		
2	Benthiavalicarb – isopropyl	177406-68-7	-
log Koc	2.083	- 2.412	
with reference to	Adsorption		

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Source

supplier

12.5 Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M7
Packing group	III
Hazard identification no.	90
UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	mancozeb
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	mancozeb
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Technical name	mancozeb
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:

E1

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H361d

Suspected of damaging the unborn child.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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