

Trade name: Funguran-OH 50 WP**Product no.:** 7000250XXX_FOH50**Current version :** 7.1.1, issued: 16.06.2020**Replaced version:** 7.1.0, issued: 08.11.2018**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Funguran-OH 50 WP****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Pesticide

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**Spiess-Urania Chemicals GmbH
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Germany

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Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

Americas +1 866 519 4752* (US, Canada, Mexico) *Toll Free Access

+1-760-476-3962

Europe +1-760-476-3961

Asia Pacific +1-760-476-3960

Middle East/Africa +1-760-476-3959

Global Response Access Code: 334018

Account: 14537

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

Acute Tox. 4; H302

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Eye Dam. 1; H318

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**

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GHS05



GHS07



GHS09

Signal word

Danger

Hazard statement(s)

H302

Harmful if swallowed.

H318

Causes serious eye damage.

H410

Very toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH401

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

Precautionary statement(s)

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

P280

Wear eye protection/face protection.

2.3 Other hazards

No data available.

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

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

Mixture (preparation)

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	copper-dihydroxide		
	20427-59-2	Acute Tox. 2; H330	> 70.00 - < 90.00 %-b.w.
	243-815-9	Acute Tox. 4; H302	
	029-021-00-3	Aquatic Acute 1; H400	
	01-2119969283-29	Aquatic Chronic 1; H410 Eye Dam. 1; H318	
2	Limestone		
	1317-65-3	-	>= 5.00 - < 10.00 %-b.w.
	215-279-6		
	-		
3	sucrose		
	57-50-1	-	< 2.50 %-b.w.
	200-334-9		
	-		

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**

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In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. If unconscious place in recovery position and seek medical advice.

After skin contact

Wash off immediately with soap and water.

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). Seek medical assistance.

After ingestion

Call a doctor immediately and show label or packaging. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas. 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)

5.3 Advice for firefighters

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Firefighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. 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. Avoid dust formation.

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.

6.3 Methods and material for containment and cleaning up

Take up mechanically. When collected, handle material as described under the section 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**

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Avoid the formation and deposition of dust. Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid contact with skin and eyes.

General protective and hygiene measures

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.

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.

Recommended storage temperature

Value 0 - 30 °C

Requirements for storage rooms and vessels

Store product in closed containers.

Incompatible products

Do not store together with foodstuffs.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
List of approved workplace exposure limits (WELs) / EH40			
Copper and compounds (as Cu) dusts and mists			
	WEL short-term (15 min reference period)	2	mg/m ³
	WEL long-term (8-hr TWA reference period)	1	mg/m ³
2	Limestone	1317-65-3	215-279-6
List of approved workplace exposure limits (WELs) / EH40			
Calcium carbonate inhalable dust			
	WEL long-term (8-hr TWA reference period)	10	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Calcium carbonate respirable dust			
	WEL long-term (8-hr TWA reference period)	4	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Limestone total inhalable			
	WEL long-term (8-hr TWA reference period)	10	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Marble inhalable dust			
	WEL long-term (8-hr TWA reference period)	10	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Marble respirable dust			
	WEL long-term (8-hr TWA reference period)	4	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Limestone respirable			
	WEL long-term (8-hr TWA reference period)	4	mg/m ³
3	sucrose	57-50-1	200-334-9
List of approved workplace exposure limits (WELs) / EH40			
Sucrose			
	WEL short-term (15 min reference period)	20	mg/m ³
	WEL long-term (8-hr TWA reference period)	10	mg/m ³

DNEL, DMEL and PNEC values

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No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	copper-dihydroxide			20427-59-2 243-815-9
	dermal			9566.9 mg/kg/day
	with reference to: solid			
	dermal			956.9 mg/kg/day
	with reference to: slurry			
	inhalative			1 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	copper-dihydroxide		20427-59-2 243-815-9
	water	fresh water	0.0078 mg Cu L-1
	water	fresh water sediment	87.1 mg Cu kg dwt-1
	water	marine water	0.0056 mg Cu L-1
	water	marine water sediment	676 mg Cu kg dwt-1
	soil	-	64.6 mg Cu kg dwt-1
	sewage treatment plant	-	0.23 mg Cu L-1

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 formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

Respiratory filter (part): P2

Eye / face protection

Tightly fitting 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.

Appropriate Material	nitrile		
Material thickness	>	0.3	mm
Breakthrough time	>	480	min
Appropriate Material	rubber		
Material thickness	>	0.5	mm
Breakthrough time	>	240	min

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
Powder
light blue

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Odour	
non specific	
Odour threshold	
No data available	
pH value	
Value	7.0 - 8.5
Reference temperature	20 °C
Method	CIPAC MT 75.3
Boiling point / boiling range	
Not applicable	
Melting point / melting range	
not determined	
Decomposition point / decomposition range	
No data available	
Flash point	
Comments	nonflammable
Auto-ignition temperature	
Comments	Product is not selfigniting.
Oxidising properties	
not oxidizing	
Method	EEC A17
Explosive properties	
Product does not present an explosion hazard.	
Flammability (solid, gas)	
The substance is not flammable.	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapour pressure	
Not applicable	
Vapour density	
Not applicable	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
No data available	
Bulk density	
Value	385 - 485 g/l
Method	CIPAC MT 33
Comments	loose
Value	575 - 675 g/l
Method	CIPAC MT 33
Comments	solid
Solubility in water	
Comments	dispersible

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No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

Not applicable

9.2 Other information**Other information**

No data available.

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

No data available.

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

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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

Acute oral toxicity			
No	Product Name		
1	Funguran-OH 50 WP		
LD50		1750	mg/kg
Species	rat (male)		
Source	Manufacturer		
LD50		1250	mg/kg
Species	rat (female)		
Method	OECD 401		
Source	Manufacturer		
Acute dermal toxicity			
No	Product Name		
1	Funguran-OH 50 WP		
LD50	>	2000	mg/kg
Species	rats (male/female)		
Method	OECD 402		
Source	Manufacturer		
Acute inhalational toxicity			
No	Product Name		
1	Funguran-OH 50 WP		
LC50		5.45	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		

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Skin corrosion/irritation	
No	Product Name
1	Funguran-OH 50 WP
Species	rabbit
Method	OECD 404
Source	Manufacturer
Evaluation	non-irritant

Serious eye damage/irritation	
No	Product Name
1	Funguran-OH 50 WP
Species	rabbit
Method	OECD 405
Source	Manufacturer
Evaluation	irritant - risk of strong eye injuries

Respiratory or skin sensitisation	
No	Product Name
1	Funguran-OH 50 WP
Route of exposure	Skin
Species	guinea pig
Method	OECD 406
Evaluation	Non-sensitizing

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
Source	European Union Risk Assessment Report		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
with reference to	copper compounds		
Source	European Union Risk Assessment Report		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
with reference to	copper compounds		
Source	European Union Risk Assessment Report		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Inhalation of dusts may irritate the respiratory tract.	

SECTION 12: Ecological information

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Toxicity to fish (acute)			
No	Product Name		
1	Funguran-OH 50 WP		
LC50		16.5	µg Cu/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	Manufacturer		

Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No	Product Name		
1	Funguran-OH 50 WP		
EC50		2.4	mg/l
Duration of exposure		48	h
Species	Daphnia		
Method	OECD 202		
Source	Manufacturer		

Toxicity to Daphnia (chronic)			
No data available			

Toxicity to algae (acute)			
No	Product Name		
1	Funguran-OH 50 WP		
EC50		18.94	µg/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	copper-dihydroxide	20427-59-2	243-815-9
Evaluation		Not applicable for inorganic substances.	

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information	
Do not discharge product unmonitored into the environment.	

SECTION 13: Disposal considerations

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Waste code 02 01 08* agrochemical waste containing hazardous substances

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	copper-dihydroxide
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	copper-dihydroxide
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	copper-dihydroxide
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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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

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any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.
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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.
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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.
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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
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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)

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

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.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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