

**Trade name:** Funguran-OH 50 WP**Product no.:** 7000250XXX\_FOH50**Current version :** 7.1.0, issued: 08.11.2018**Replaced version:** 7.0.0, issued: 06.04.2018**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  
Frankenstrasse 18 b  
20097 Hamburg  
GermanyTelephone no. +49 (0)40-23652-0  
Fax no. +49 (0)40-23652-255  
e-mail mail@spiess-urania.com**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 +1-760-476-3959Global 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.

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## 2.2 Label elements

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

#### Hazard pictograms



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)

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**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>copper-dihydroxide</b>			
	20427-59-2 243-815-9 - 01-2119969283-29	Acute Tox. 2; H330 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318	> 70.00 - < 90.00	%-b.w.
2	<b>Limestone</b>			
	1317-65-3 215-279-6 - -	-	>= 5.00 - < 10.00	%-b.w.
3	<b>sucrose</b>			
	57-50-1 200-334-9 - -	-	< 2.50	%-b.w.
4	<b>silicon dioxide, chemically prepared</b>			
	7631-86-9 231-545-4 - 01-2119379499-16	-	< 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. 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.

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## 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 (CO<sub>2</sub>); Carbon monoxide (CO)

### 5.3 Advice for firefighters

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Fire-fighting 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 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**

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.

**Advice on storage assembly**

Do not store together with foodstuffs.

### 7.3 Specific end use(s)

No data available.

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

No	Substance name	CAS no.	EC no.
1	<b>Limestone</b>	<b>1317-65-3</b>	<b>215-279-6</b>
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Calcium carbonate			
total inhalable dust			
	WEL long-term (8-hr TWA reference period)	10	mg/m <sup>3</sup>
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Calcium carbonate			
respirable dust			
	WEL long-term (8-hr TWA reference period)	4	mg/m <sup>3</sup>
2	<b>sucrose</b>	<b>57-50-1</b>	<b>200-334-9</b>
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Sucrose			
	WEL short-term (15 min reference period)	20	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	10	mg/m <sup>3</sup>
3	<b>silicon dioxide, chemically prepared</b>	<b>7631-86-9</b>	<b>231-545-4</b>
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Silica, amorphous			
inhalable dust			
	WEL long-term (8-hr TWA reference period)	6	mg/m <sup>3</sup>
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Silica, amorphous			
respirable dust			
	WEL long-term (8-hr TWA reference period)	2.4	mg/m <sup>3</sup>

**DNEL, DMEL and PNEC values****DNEL values (worker)**

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

**PNEC values**

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	<b>copper-dihydroxide</b>		<b>20427-59-2</b> <b>243-815-9</b>
	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

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## 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 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

<b>Form/Colour</b>	
Powder	
light blue	
<b>Odour</b>	
non specific	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	7.0 - 8.5
Reference temperature	20 °C
Method	CIPAC MT 75.3
<b>Boiling point / boiling range</b>	
Not applicable	
<b>Melting point / melting range</b>	
not determined	
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
Comments	nonflammable
<b>Auto-ignition temperature</b>	
Comments	Product is not selfigniting.

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<b>Oxidising properties</b>	
not oxidizing	
Method	EEC A17

<b>Explosive properties</b>
Product does not present an explosion hazard.

<b>Flammability (solid, gas)</b>
The substance is not flammable.

<b>Lower flammability or explosive limits</b>
No data available

<b>Upper flammability or explosive limits</b>
No data available

<b>Vapour pressure</b>
Not applicable

<b>Vapour density</b>
Not applicable

<b>Evaporation rate</b>
No data available

<b>Relative density</b>
No data available

<b>Density</b>
No data available

<b>Bulk density</b>	
Value	385 - 485 g/l
Method	CIPAC MT 33
Comments	loose
Value	575 - 675 g/l
Method	CIPAC MT 33
Comments	solid

<b>Solubility in water</b>	
Comments	dispersible

<b>Solubility(ies)</b>
No data available

<b>Partition coefficient: n-octanol/water</b>
No data available

<b>Viscosity</b>
Not applicable

## 9.2 Other information

<b>Other information</b>
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).

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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		

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		



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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

### 12.1 Toxicity

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		

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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****13.1 Waste treatment methods****Product**

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.

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## 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

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## 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
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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.

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Prod-ID 603040