



# SÜDWEST Fungan

## 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word	: Danger
Hazard statements	: H315 Causes skin irritation. H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	: P102 Keep out of reach of children. <b>Prevention:</b> P280 Wear protective gloves/ eye protection/ face protection. P273 Avoid release to the environment. <b>Response:</b> P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. <b>Disposal:</b> P501 Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

### Hazardous components which must be listed on the label:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Use biocides safely. Always read the label and product information before use.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1 270-325-2	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	≥ 2,5 - < 5

For explanation of abbreviations see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Inhalation	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Eye contact	If skin irritation persists, call a physician. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Ingestion	Seek medical advice. Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention. Keep at rest.

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

Symptoms	No information available.
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## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment	Treat symptomatically. No information available.
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical Water spray
Unsuitable extinguishing media	High volume water jet

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

Fire may cause evolution of:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Exposure to decomposition products may be a hazard to health.  
Wear self-contained breathing apparatus for firefighting if necessary.

### 5.3 Advice for firefighters

Additional advice	Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation.  
Do not breathe vapour.

### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean with detergents. Avoid solvents.  
Dispose of contaminated material as waste according to item 13.  
Clean contaminated surface thoroughly.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling	Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Prevent unauthorized access. Provide sufficient air exchange and/or exhaust in work rooms.
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Hygiene measures                      Comply with the statutory regulations on health and safety at work.  
Wash hands before breaks and at the end of workday.  
When using do not eat, drink or smoke.  
Remove and wash contaminated clothing and gloves, including  
the inside, before re-use.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers                      Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store in original container.  
Observe label precautions.  
Protect from frost, heat and sunlight.

Advice on common storage                      Keep away from oxidizing agents and strongly acid or alkaline materials.

**7.3 Specific end use(s)**                      For further information, see also Technical Data Sheet for the product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values. The lists that were valid during the creation were used as basis.

### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation.

#### Individual protection measures, such as personal protective equipment

- a) Eye/face protection                      Wear protective goggles for protection against splashed liquid.  
  
Safety glasses with side-shields conforming to EN166
- b) Skin protection  
Hand protection                      Recommended preventive skin protection  
Before starting work, apply water-resistant skincare preparations to exposed skin areas.  
Protective gloves should be worn in case of skin contact during preparation and application.
- Break through time: 480 min  
Minimum thickness: 0,11 mm  
Gloves made of nitrile rubber, e.g. KCL 740 Dermatril® (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent.  
Cotton undergloves are recommendable when wearing protective gloves!  
Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.

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Body Protection	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Work clothes Skin should be washed after contact.
c) Respiratory protection	Do NOT use solvents or thinners. No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. Employees involved in spraying work or in the immediate vicinity of such work should use a P2 particle filter against spray fog. Respiratory protection complying with EN 143.

**Environmental exposure controls**

General advice	The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities.
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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	liquid
Colour	Yellowish
Odour	Weak, characteristic
Odour Threshold	No data available
pH	6,5 - 7,5 (20 °C) Concentration: 100 %
Melting point/freezing point	< 0 °C
Initial boiling point and boiling range	No data available
Flash point	> 100 °C
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Upper explosion limit / Upper flammability limit	No data available
Lower explosion limit / Lower flammability limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	ca. 1 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	

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Water solubility	completely miscible
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Decomposition temperature	No data available
Viscosity	
Viscosity, dynamic	ca. 12,5 mPa.s (20 °C)
Explosive properties	Not explosive
Oxidizing properties	Not applicable

## 9.2 Other information

Flow time	No data available
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	This information is not available.
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### 10.4 Conditions to avoid

Conditions to avoid	Stable under recommended storage and handling conditions (see section 7).
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### 10.5 Incompatible materials

Materials to avoid	Strong acids and strong bases Strong oxidizing agents
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### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

##### Product:

Acute oral toxicity	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
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Acute inhalation toxicity	Based on available data, the classification criteria are not met.
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Acute dermal toxicity Based on available data, the classification criteria are not met.

**Components:**

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Acute oral toxicity LD50 (Rat): 344 mg/kg

**Skin corrosion/irritation**

**Product:**

Causes skin irritation.

**Components:**

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation**

**Product:**

Causes serious eye damage.

**Components:**

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Causes serious eye damage.

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Product:**

Effects on fertility Based on available data, the classification criteria are not met.

**Developmental Toxicity**

Based on available data, the classification criteria are not met.

**STOT - single exposure**

**Product:**

Based on available data, the classification criteria are not met.

**STOT - repeated exposure**

**Product:**

Based on available data, the classification criteria are not met.

**Aspiration toxicity**

**Product:**

Based on available data, the classification criteria are not met.

**Further information**

**Product:**

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).



**SÜDWEST Fungan****11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Further information****Product:**

Remarks : The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Product:**

Toxicity to fish No data available

**Components:****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0,085 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia (water flea)): 0,016 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants EC10 (Selenastrum capricornutum (green algae)): 0,025 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) NOEC: 0,025 mg/l  
Exposure time: 21 d  
Species: Daphnia (water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) 1

**12.2 Persistence and degradability****Product:**

Biodegradability No data available

**Components:****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Biodegradability rapidly degradable

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## 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation No data available

## 12.4 Mobility in soil

**Product:**

Mobility No data available

## 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

**Product:**Additional ecological information Even small quantities emptied into the soil can affect the quality of drinking water.  
Do not use in the direct vicinity of bodies of water. Do not allow the agent or any product residues to enter into waters, the soil or the sewage system.  
Very toxic to aquatic life with long lasting effects.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product	The user is responsible for proper coding and marking of any waste. Dispose of as special waste in compliance with local and national regulations.
Contaminated packaging	Partial and residual quantities can be reused. Packaging that is not properly emptied must be disposed of as the unused product.
Waste key for the unused product	Empty packaging should be recycled through disposal systems. 08 01 11* waste paint and varnish containing organic solvents or other hazardous substances (* ) hazardous waste in terms of the European directive 2008/98/EG

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number or ID number

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<b>ADR</b>	3082
<b>IMDG</b>	3082
<b>IATA</b>	3082

## 14.2 UN proper shipping name

<b>ADR</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  (Benzalkonium chloride)
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  (Benzalkonium chloride)
<b>IATA</b>	Environmentally hazardous substance, liquid, n.o.s.  (Benzalkonium chloride)

## 14.3 Transport hazard class(es)

<b>ADR</b>	9
<b>IMDG</b>	9
<b>IATA</b>	9

## 14.4 Packing group

<b>ADR</b>	
Packing group	III
Classification Code	M6
Hazard Identification Number	90
Labels	9
Tunnel restriction code	(-)
<b>IMDG</b>	
Packaging group	III
Labels	9
EmS number	F-A, S-F
<b>IATA</b>	
Packaging group	III
Labels	9

## 14.5 Environmental hazards

<b>ADR</b>	
Environmentally hazardous	: yes

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**IMDG**  
Marine pollutant : yes

## 14.6 Special precautions for user

Remarks This information is not available.

## 14.7 Maritime transport in bulk according to IMO instruments

Remarks Not applicable

## SECTION 15: REGULATORY INFORMATION

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

VOC  
Directive 2010/75/EU 0 %

VOC  
Directive 2004/42/EC

does not fall under Directive 2004/42/EC

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Not applicable

#### Further notes

Type of product:  
Disinfectants and algaecides not intended for direct application to humans or animals  
Construction material preservatives  
Before use please consult technical data sheet and safety data sheet.  
The effectiveness of the biocide is dependent on correct storage and observation of the use-by date.

Do not use in the direct vicinity of bodies of water. Do not allow the agent or any product residues to enter into waters, the soil or the sewage system.

Other regulations Comply with the statutory regulations on health and safety at work.

### 15.2 Chemical safety assessment

This information is not available.

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## SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

### Full text of H-Statements

H290	: May be corrosive to metals.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Met. Corr.	: Corrosive to metals
Skin Corr.	: Skin corrosion

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-

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Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Other information

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing MSDS  
REG\_EU / EN

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