

**Safety data sheet**  
according to UK REACH

Printing date 14.04.2025

Version number 2 (replaces version 1)

Revision: 14.04.2025

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**Trade name **Lithos Arte Flüssig**

Article number: 5570

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

No further relevant information available.

**Application of the substance / the mixture** Mortar admixtures**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Remmers GmbH

Bernhard-Remmers-Str. 13  
D-49624 Lönningen / Germany

Tel.: +49(0)5432/83-0

Fax: +49(0)5432/3985

Remmers (UK) Limited  
Suites 1 & 2 · The Gardens · Coleshill Manor Office Campus  
South Drive · Coleshill · Birmingham · B46 1DL

fon +44 (0) 333 034 8126

**Information department:**

fon +44 (0) 333 034 8126

Email: remmers.sales.uk@remmers.com

**1.4 Emergency telephone number:**

National Poisons Information Service (NPIS):

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

24h-Transport Emergency Contact Phone Number:

within USA and Canada: 1-800-424-9300

outside USA and Canada: 001-703-527-3887

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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

The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**

GHS05 GHS07 GHS09

**Signal word** Danger**Hazard-determining components of labelling:**

zinc chloride

**Hazard statements**

H314 Causes severe skin burns and eye damage.

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H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions.

#### Dangerous components [% w/w]:

CAS: 7646-85-7	zinc chloride	≥40-<50%
EINECS: 231-592-0	Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic	
Index number: 030-003-00-2	Chronic 1, H410; Acute Tox. 4, H302	
	Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	

Additional information For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General information Immediately remove any clothing soiled by the product.

##### After inhalation

Take affected persons into the open air and position comfortably

In case of unconsciousness bring patient into stable side position for transport.

##### After skin contact

Wash immediately with water and soap and rinse thoroughly.

Wash off immediately with water.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing Drink plenty of water and provide fresh air. Call a doctor immediately.

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

No further relevant information available.

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

symptomatic treatment

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing agents Use fire fighting measures that suit the environment.

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

May be released in case of fire

Hydrogen chloride (HCl)

Chlorine

#### 5.3 Advice for firefighters

Protective equipment: No special measures required.

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### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Inform responsible authorities in case product reaches bodies of water or sewage system.

Dilute with plenty of water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

No special measures required.

No special precautions necessary if used correctly.

**Information about protection against explosions and fires:** No special requirements.

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

##### Storage

**Requirements to be met by storerooms and containers:** No special requirements.**Further information about storage conditions:** Keep container tightly closed.

### \* SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Components with limit values that require monitoring at the workplace:

##### CAS: 7646-85-7 zinc chloride

WEL	Short-term value: 2 mg/m <sup>3</sup>
	Long-term value: 1 mg/m <sup>3</sup>

**Additional information:** The lists that were valid during compilation were used as a basis.

#### 8.2 Exposure controls

**Appropriate engineering controls** No further data; see section 7.

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

##### General protective and hygienic measures

Keep away from food, beverages and animal feed.

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evaluated by the employer depending on the types of operations and the local circumstances. If a risk assessment on-site shows that there is no risk for employees, the personal protective equipment is not required or the amount of the PPE can be adapted accordingly.

##### Respiratory equipment:

In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

##### Hand protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

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substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### **Penetration time of glove material**

Break through time: max. 240 min (DIN EN 374).

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection** Tightly sealed safety glasses.

**Body protection:** not necessary for normal use

#### **Environmental exposure controls**

Use suitable containers to avoid contamination of the environment. Prevent from entering the sewage system or into surface and ground water. Information on limiting and monitoring environmental exposure can be found in section 6 can be found in section 6.

### SECTION 9: Physical and chemical properties

#### **9.1 Information on basic physical and chemical properties**

##### **General Information**

<b>Physical state</b>	Fluid
<b>Colour:</b>	clear
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	-25 °C
<b>Boiling point or initial boiling point and boiling range</b>	106 °C
<b>Flammability</b>	Not applicable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	Not applicable
<b>Auto-ignition temperature:</b>	not applicable
<b>Decomposition temperature:</b>	Not determined.
<b>pH at 20 °C</b>	5
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>Water:</b>	Fully miscible
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1.42 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.

#### **9.2 Other information**

<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Explosive properties:</b>	Product is not explosive.
<b>Solvent separation test</b>	< 3 %
<b>VOC EU</b>	0.0 g/l
<b>Water:</b>	60.0 %
<b>Solid content:</b>	40.0 %
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.

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

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void

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<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

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

**Acute toxicity:** Based on available data, the classification criteria are not met.

**LD/LC50 values that are relevant for classification:**

**CAS: 7646-85-7 zinc chloride**

Oral	LD50	1,100 mg/kg (rat)
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**Skin corrosion/irritation:** Causes severe skin burns and eye damage.

**Serious eye damage/irritation:** Causes serious eye damage.

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

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

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

**Reproductive toxicity:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** May cause respiratory irritation.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

None of the ingredients is listed.

### \* SECTION 12: Ecological information

**12.1 Toxicity**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

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**12.7 Other adverse effects** No further relevant information available.**Remark:** Very toxic for fish**Additional ecological information:****General notes:**

Do not allow product to reach ground water, bodies of water or sewage system, even in small quantities.

Do not allow product to reach ground water, bodies of water or sewage system.

Hazardous to drinking water even if extremely small quantities leak into soil.

Also toxic for fish and plankton in bodies of water.

Very toxic for aquatic organisms

### SECTION 13: Disposal considerations

**Recommendation**

Liquid material remains are to be disposed of at collection facilities for old varnishes.

**European waste catalogue**

The assignment of refuse code numbers is to be executed specifically for branches and processes according to EWC-regulations.






**Uncleaned packaging:****Recommendation:**

Disposal must be made according to official regulations.

Packaging can be reused or recycled after cleaning.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

### \* SECTION 14: Transport information

<b>14.1 UN number or ID number</b> ADR, IMDG, IATA	UN1840
<b>14.2 UN proper shipping name</b> ADR  IMDG IATA	1840 ZINC CHLORIDE SOLUTION, ENVIRONMENTALLY HAZARDOUS ZINC CHLORIDE SOLUTION, MARINE POLLUTANT ZINC CHLORIDE SOLUTION
<b>14.3 Transport hazard class(es)</b> ADR     Class Label	8 (C1) Corrosive substances. 8
IMDG     Class Label	8 Corrosive substances. 8
IATA    Class Label	8 Corrosive substances. 8

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<b>14.4 Packing group ADR, IMDG, IATA</b>	III
<b>14.5 Environmental hazards:</b> <b>Marine pollutant:</b> <b>Special marking (ADR):</b>	Product contains environmentally hazardous substances: zinc chloride Symbol (fish and tree) Symbol (fish and tree)
<b>14.6 Special precautions for user hazard identification number:</b> <b>EMS Number:</b> <b>Segregation groups</b>  <b>Stowage Category</b> <b>Segregation Code</b>	Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids, (SGG7) heavy metals and their salts (including their organometallic compounds) A SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>Transport/Additional information:</b>	
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<b>ADR</b> <b>Limited quantities (LQ)</b> <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>Transport category</b> <b>Tunnel restriction code</b>	3 E
-----	
<b>IMDG</b> <b>Limited quantities (LQ)</b> <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation":</b>	UN 1840 ZINC CHLORIDE SOLUTION, 8, III, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

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

**Poisons Act**

**Regulated explosives precursors**

None of the ingredients is listed.

**Regulated poisons**

None of the ingredients is listed.

**Reportable explosives precursors**

None of the ingredients is listed.

**Reportable poisons**

None of the ingredients is listed.

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Seveso category E1** Hazardous to the Aquatic Environment

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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<b>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>
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None of the ingredients is listed.

<b>REGULATION (EU) 2019/1148</b>
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<b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b>
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None of the ingredients is listed.

<b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>
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None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

<b>SECTION 16: Other information</b>
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This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

**Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Classification according to Regulation (EC) No 1272/2008**

Calculation method

On basis of test data

Skin corrosion/irritation

Serious eye damage/irritation

Specific target organ toxicity (single exposure)

Hazardous to the aquatic environment - short-term

(acute) aquatic hazard

Hazardous to the aquatic environment - long-term

(chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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**Department issuing data specification sheet:** Product Safety department / EHS**Version number of previous version:** 1**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

**\* Data compared to the previous version altered.**

This document replaces all previous versions. The information in this safety data sheet corresponds to our current state of knowledge and complies with national and EU legislation. However, the given working conditions of the user are beyond our knowledge and control. The product must not be used for purposes other than those specified in section 1 without written authorization. The user is responsible for compliance with all necessary legal regulations. The information in this safety data sheet describes the safety requirements of our product and does not constitute a guarantee of product properties. We accept no liability for errors in the printed form.