

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## ALBILEX 3000

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name/designation:

ALBILEX 3000

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

Use of the substance/mixture:

Industrial uses

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ALBILEX GmbH & Co. KG

Achtzehnmorgenweg 3

61250 Usingen

Telephone: +49-6081-10400

Telefax: +49-6081-104040

E-mail: info@albilex.de

Website: www.albilex.de

#### 1.4. Emergency telephone number

+49-6081-10400 (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS05**  
Corrosion

Signal word: Danger

hazard statements for health hazards	
H315	Causes skin irritation.
H318	Causes serious eye damage.

Supplemental Hazard information (EU): -

Precautionary statements Prevention	
P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/....
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/....
P321	Specific treatment (see ... on this label).
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.

### Precautionary statements Disposal

P501	Dispose of contents/container to ....
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### 2.3. Other hazards

No data available



## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Description:

Acid cleaner for drinking water supplies

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CL P]	Concentration
CAS No.: 7664-38-2 EC No.: 231-633-2 REACH No.: 01-2119485924-24-XXXX	orthophosphoric acid Skin Corr. 1B  <b>Danger</b> H314	0 - 10 Wt %
EC No.: 908-996-7 REACH No.: 01-2119970718-23-0000	Hordaphos CCMS Skin Corr. 1B  <b>Danger</b> H314	0 - 10 Wt %

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Call a physician immediately. Seek medical advice immediately. If skin irritation or rash occurs: Get medical advice/attention.

#### After eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Do NOT induce vomiting.

#### Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

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

**Hazardous combustion products:**

In case of fire may be liberated: Phosphorus oxides, Gases/vapours, toxic

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Higher amounts of product in fire water, it must be neutralized with sodium hydroxide. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety.

**Protective equipment:**

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

#### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

**For containment:**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**

Pump away bigger amounts. Suitable material for diluting or neutralizing: Water Caustic soda Wash with plenty of water.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8).

**Advices on general occupational hygiene**

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

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

**Technical measures and storage conditions:**

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

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### Requirements for storage rooms and vessels:

Suitable container/equipment material: Polyethylene (PE), Polypropylene

### Hints on storage assembly:

Do not store together with: alkali, Strong alkali

**Storage class:** 8B - Non-combustible corrosive substances

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	orthophosphoric acid CAS No.: 7664-38-2	① 2 mg/m <sup>3</sup> ② 4 mg/m <sup>3</sup> ⑤ (einatembare Fraktion)
IOELV (EU)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m <sup>3</sup> ② 2 mg/m <sup>3</sup>

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Hordaphos CCMS	7.05 mg/m <sup>3</sup>	① DNEL worker ② DNEL long-term inhalative (systemic)
Hordaphos CCMS	1.7 mg/m <sup>3</sup>	① DNEL Consumer ② DNEL long-term inhalative (systemic)
Hordaphos CCMS	1 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)
Hordaphos CCMS	0.5 mg/kg bw/day	① DNEL Consumer ② DNEL long-term dermal (systemic)
Hordaphos CCMS	0.5 mg/kg bw/day	① DNEL Consumer ② DNEL long-term oral (repeated)

Substance name	PNEC Value	① PNEC type
Hordaphos CCMS	100 mg/l	① PNEC sewage treatment plant (STP)
Hordaphos CCMS	100 µg/l	① PNEC aquatic, freshwater
Hordaphos CCMS	0.0851 mg/kg	① PNEC sediment, freshwater
Hordaphos CCMS	10 µg/l	① PNEC aquatic, marine water
Hordaphos CCMS	0.00851 mg/kg	① PNEC sediment, marine water
Hordaphos CCMS	0.0197 mg/kg	① PNEC soil, freshwater
Hordaphos CCMS	4 mg/kg	① PNEC Secondary Poisoning

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection DIN EN 166

##### Skin protection:

Tested protective gloves must be worn

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber).

Thickness of the glove material: 0,65 mm; 0,4 mm; 0,7mm.

Permeation time (maximum wear time): > 8 h.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Breakthrough times and swelling properties of the material must be taken into consideration.

##### Other protection measures:

Chemical resistant safety shoes, Chemical protection clothing, acid-resistant, When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

#### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** colourless

**Odour:** odourless

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	2.1 - 2.3	20 °C		Gehalt an gelöster Substanz: 10 g / L
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	100 °C			pressure: 1013 mbar
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Relative density	1.3 - 1.6 g/cm <sup>3</sup>	20 °C		
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	9.95 - 10.5	20 °C	DIN 53211	
Kinematic viscosity	<i>not determined</i>	40 °C		

### 9.2. Other information

No data available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Materials to avoid: Alkali (lye), hypochlorite. The product develops hydrogen in an aqueous solution in contact with metals.

#### 10.2. Chemical stability

No data available

#### 10.3. Possibility of hazardous reactions

Decomposition takes place from temperatures above: 300 °C, Phosphorus oxides (e.g. P2O5)

#### 10.4. Conditions to avoid

Decomposition takes place from temperatures above: 300 °C, Phosphorus oxides (e.g. P2O5)

#### 10.5. Incompatible materials

Materials to avoid: Alkali (lye), hypochlorite. The product develops hydrogen in an aqueous solution in contact with metals.

#### 10.6. Hazardous decomposition products

Decomposition takes place from temperatures above: 300 °C, Phosphorus oxides (e.g. P2O5)

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7664-38-2	orthophosphoric acid	<b>LD<sub>50</sub> oral:</b> 1,500 mg/kg (Ratte) <b>LD<sub>50</sub> dermal:</b> 2,740 mg/kg (Kaninchen) <b>LC<sub>50</sub> inhalative:</b> 0.85 mg/l 1 h (Ratte)
	Hordaphos CCMS	<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat) OECD 401

#### Acute oral toxicity:

The classification criteria for this hazard class are not met by definition.

#### Acute dermal toxicity:

The classification criteria for this hazard class are not met by definition.

#### Acute inhalation toxicity:

The classification criteria for this hazard class are not met by definition.

#### Skin corrosion/irritation:

Causes burns.

#### Serious eye damage/irritation:

Causes serious eye damage.

#### Respiratory or skin sensitisation:

not sensitising.

#### Germ cell mutagenicity:

The classification criteria for this hazard class are not met by definition.

#### Carcinogenicity:

The classification criteria for this hazard class are not met by definition.

#### Reproductive toxicity:

The classification criteria for this hazard class are not met by definition.

#### STOT-single exposure:

The classification criteria for this hazard class are not met by definition.

#### STOT-repeated exposure:

The classification criteria for this hazard class are not met by definition.

#### Aspiration hazard:

The classification criteria for this hazard class are not met by definition.

#### Additional information:

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
	Hordaphos CCMS	<b>LC<sub>50</sub></b> : >100 mg/l 4 d (Brachydanio rerio (zebra-fish)) OECD 203 <b>EC<sub>50</sub></b> : >100 mg/l 4 d (Brachydanio rerio (zebra-fish)) OECD 203 <b>LOEC</b> : >100 mg/l 4 d (Brachydanio rerio (zebra-fish)) OECD 203 <b>NOEC</b> : >100 mg/l 4 d (Brachydanio rerio (zebra-fish)) OECD 203 <b>EC<sub>50</sub></b> : >100 mg/l 2 d (Daphnia magna (Big water flea)) OECD 202 <b>EC<sub>50</sub></b> : >100 mg/l (Daphnia magna (Big water flea)) OECD 202 <b>EC<sub>50</sub></b> : >100 mg/l (Desmodesmus subspicatus) OECD 201 <b>NOEC</b> : >100 mg/l (Desmodesmus subspicatus) OECD 201

#### Aquatic toxicity:

Concentrated solution toxic for aquatic life due to pH-shift

#### Effects in sewage plants:

After neutralization all organic components are readily biodegradable.

#### 12.2. Persistence and degradability

##### Additional information:

After neutralization all organic components are readily biodegradable. Biodegradable.

#### 12.3. Bioaccumulative potential

##### Accumulation / Evaluation:

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
7664-38-2	orthophosphoric acid	—
	Hordaphos CCMS	—

#### 12.6. Other adverse effects

Chemical oxygen demand (COD): 13 mg/g, Dilution 1 : 1000

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Only give to sewage system after neutralization.

#### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Wash with water und give to plastic recycling.

#### 13.2. Additional information

No data available

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## ALBILEX 3000

### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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#### 14.1. UN-No.

UN 3265	UN 3265	UN 3265	UN 3265
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#### 14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphorsäuremonomethylester, Phosphorsäure)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphorsäuremonomethylester, Phosphorsäure)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid monomethyl ester, phosphoric acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid monomethyl ester, phosphoric acid)
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#### 14.3. Transport hazard class(es)

 8	 8	 8	 8
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#### 14.4. Packing group

II	II	II	II
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#### 14.5. Environmental hazards

No data available

#### 14.6. Special precautions for user

Special provisions: Limited quantity (LQ): Hazard identification number (Kemler No.): 80 Classification code: C3 tunnel restriction code: (E) Remark:	Special provisions: Limited quantity (LQ): Classification code: C3 Remark:	Special provisions: Limited quantity (LQ): EmS-No.: F-A; S-B Remark:	Special provisions: Limited quantity (LQ): Remark:
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#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

No data available

##### 15.1.2. National regulations

 [DE] National regulations

##### Water hazard class (WGK)

###### WGK:

1 - schwach wassergefährdend

##### 15.2. Chemical Safety Assessment

No data available

##### 15.3. Additional information

No data available



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### SECTION 16: Other information

#### 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

No data available

#### 16.3. Key literature references and sources for data

No data available

#### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	

#### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H314	Causes severe skin burns and eye damage.

#### 16.6. Training advice

No data available

#### 16.7. Additional information

The data presented here correspond to the present state of our knowledge and experience and are intended to describe our product with respect to possible safety demands. We imply with this however no guarantee of properties or description of qualities.