



Safety Data Sheet



according to Regulation (EC) No 1907/2006

LiquiPhos® Strong

Print date: 14.05.2013

Product code: 5709

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

1.1. Product identifier

LiquiPhos® Strong

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

Use of the substance/mixture

Complementary feeding stuff

1.3. Details of the supplier of the safety data sheet

Company name: Biochem Zusatzstoffe
Handels- und Produktionsges. mbH
Street: Küstermeyerstr. 16
Place: D-49393 Lohne
Telephone: +49 (0) 4442 - 9289 - 0 Telefax: +49 (0) 4442 - 9289 - 28
e-mail: info@biochem.net
Internet: www.biochem.net
Responsible Department: Fachabteilung
Tel.: +49 (0) 4442 - 9289 - 69
E-Mail: MSDS@biochem.net

1.4. Emergency telephone:

Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger : Corrosive

R-phrases:

Causes burns.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS classification

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes severe skin burns and eye damage.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

Phosphoric acid

Signal word: Danger

Pictograms: GHS05



Hazard statements

H314

Causes severe skin burns and eye damage.

H412

Harmful to aquatic life with long lasting effects.





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Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-633-2	Phosphoric acid	50 - 100 %
7664-38-2	C - Corrosive R34	
	Met. Corr. 1, Skin Corr. 1A; H290 H314	
233-140-8	calcium chloride	< 5 %
10043-52-4	Xi - Irritant R36	
017-013-00-2	Eye Irrit. 2; H319	
215-222-5	zinc oxide	< 2,5 %
1314-13-2	N - Dangerous for the environment R50-53	
030-013-00-7	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Provide fresh air.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Hazards identification: Stomach perforation. Immediately get medical attention. Do not allow a neutralization agent to be drunk.





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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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product itself is not combustible.

Extinguishing materials should be selected according to the surrounding area.

Extinguishing media which must not be used for safety reasons

Not applicable.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit. Full protective suit.

Additional information

Use a water spray jet to knock down vapours/gases/mists. 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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

The product needs to apply neutralizing agents before draining to wastewater treatment plants. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal. Provide adequate ventilation.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed and in a well-ventilated place.

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

No special precautionary measures are necessary.

Further information on handling

No further relevant information available.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Keep locked up. Store in a place accessible only to authorized persons. Provide for sufficient ventilation and punctiform suction at critical points.





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Advice on storage compatibility

Store away from foodstuffs.

Further information on storage conditions

Protect from frost.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
1309-48-4	Magnesium oxide (as Mg), fume and respirable dust	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

Additional advice on limit values

The lists that were valid during the compilation were used as basis.

8.2. Exposure controls

Occupational exposure controls

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. Avoid contact with the eyes and skin. When using do not eat or drink.

Respiratory protection

Only during spraying without adequate removal by suction. Recommended filter device for short term use: Filter AX.

Hand protection

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications.

Eye protection

Tightly sealed safety glasses.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	bluish
Odour:	characteristic

Test method

pH-Value (at 20 °C): < 2

Changes in the physical state





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Melting point: Not determined.
Boiling point: 100 °C
Sublimation point: Not applicable.
Softening point: Not applicable.
Flash point: Not applicable.

Explosive properties

not explosive.

Vapour pressure: 23 hPa

(at 20 °C)

Density (at 20 °C): 1,3 g/cm³

Water solubility: miscible.

(at 20 °C)

Viscosity / dynamic: Not determined.

Viscosity / kinematic: Not determined.

Vapour density: Not determined.

Solvent content: 0 %

SECTION 10: Stability and reactivity

10.2. Chemical stability

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 toxicological effects

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7664-38-2	Phosphoric acid				
	oral	LD50	1530 mg/kg	Rat.	
	dermal	LD50	2740 mg/kg	Rabbit.	
1314-13-2	zinc oxide				
	oral	LD50 mg/kg	> 5000	Ratte	IUCLID

Irritation and corrosivity

after ingestion: Irritation and etching. Hazards identification: Stomach perforation.

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).





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SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No further relevant information available.

Further information

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations.

Contaminated packaging

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8

Classification code: C1

Limited quantity: 5 I

Transport category: 3

Hazard No: 80

Tunnel restriction code: E

Other applicable information (land transport)

Excepted quantities (EQ): E1

Inland waterways transport

14.1. UN number: UN3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION)

14.3. Transport hazard class(es): 8

14.4. Packing group: III





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Hazard label: 8

Marine transport

14.1. UN number: UN3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8

Air transport

UN/ID number: UN3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8

14.6. Special precautions for user

corrosive.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

Used abbreviations and acronyms can be looked up at www.wikipedia.com.

Full text of R-phrases referred to under sections 2 and 3

- 34 Causes burns.
- 36 Irritating to eyes.
- 50 Very toxic to aquatic organisms.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 53 May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.





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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

