

Trade name: Acid phosphoricum conc 85%

Substance number: 205500

Version: 5 / CH

Date revised: 17.12.2019

Replaces Version: 4 / CH

Print date: 17.12.19

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

1.1. Product identifier

Acid phosphoricum conc 85%

Item No. 20550000

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

Use of the substance/preparation

Chemical

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1B H314

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements ***

H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

Precautionary statements

P264.1 Wash hands thoroughly after handling.

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

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P305+P351+P338 comfortable for breathing.
 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 or doctor.
 P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Phosphoric acid

2.3. Other hazards

Causes burns. Irritating to respiratory system.

SECTION 3: Composition/information on ingredients *****Hazardous ingredients *******Phosphoric acid**

CAS No.	7664-38-2	
EINECS no.	231-633-2	
Registration no.	01-2119485924-24	
Concentration	>= 76	%
Classification (Regulation (EC) No. 1272/2008)	Skin Corr. 1B	H314

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 10 < 25
Skin Corr. 1B	H314	>= 25
Skin Irrit. 2	H315	>= 10 < 25
Met. Corr. 1	H290	

CLP Regulation (EC) No 1272/2008, Annex VI, Note B
 DSD Directive 67/548/EEC, Annex I, Note B

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Shield unaffected eye.

After ingestion

Drink water in small gulps. Do not induce vomiting. Summon a doctor immediately.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Foam, Carbon dioxide, Dry powder

5.2. Special hazards arising from the substance or mixture

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The product is not combustible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Use personal protective clothing. Keep away unprotected persons. Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Neutralise with: milk of lime. Dilute with water. Pick up rest with suitable absorbent materials. Send in suitable containers for recovery or disposal.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Use only acid resistant equipment.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from extreme heat and cold.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Phosphoric acid

List	SUVA	
Type	MAK	
Value	1	mg/m ³
Short term exposure limit	2	mg/m ³

Pregnancy group: S; Status: 2017; Remarks: SSc; OAW, Auge & Haut, LungeKT AN; NIOSH, OSHA

8.2. Exposure controls

General protective and hygiene measures

Wash hands before breaks and after work. Remove contaminated, soaked clothing immediately and

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dispose of safely. Do not eat, drink or smoke during work time. Take a shower after work finish.

Respiratory protection

Breathing apparatus in the event of vapours. Full mask; combination filter B-P3; Breathing apparatus in the event of vapours.

Hand protection

Gloves

Appropriate Material	Natural Latex		
Material thickness	0.6	mm	
Breakthrough time	> 480	min	

Eye protection

Safety goggles; Face shield

Body protection

Clothing as usual in the chemical industry. protective overalls

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	odourless

pH value

Value	1.0	
Temperature	20	°C

Initial boiling point and boiling range

Value	158		°C
Pressure	1.013	hPa	

Flash point

Value	°C
Remarks	Not applicable

Upper/lower flammability or explosive limits

Remarks	Not applicable
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Vapour pressure

Value	16		hPa
Temperature	50	°C	
Value	2		hPa
Temperature	20	°C	

Density

Value	appr. 1.71		g/cm ³
Temperature	20	°C	

Solubility in water

Remarks	Completely miscible
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Ignition temperature

Remarks	Not applicable
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Decomposition temperature

Remarks	No decomposition if used as prescribed.
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9.2. Other information**Other information**

Product is hygroscopic.

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SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Stable under recommended storage and handling conditions (see section 7).

10.4. Conditions to avoid

Protect from atmospheric moisture and water.

10.5. Incompatible materials

Reactions with metals, with evolution of hydrogen. Reactions with strong alkalis. Corrosive to metals.

10.6. Hazardous decomposition products

Phosphorus compounds

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	1'738.63	mg/kg
	64	

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)

Phosphoric acid

Species	rat	
LC50	1530	mg/kg
Source	BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol 17-4/1970	

Acute dermal toxicity (Components)

Phosphoric acid

Species	rabbit	
LD50	2740	
Source	BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 17-4/1970	

Skin corrosion/irritation

evaluation corrosive

Serious eye damage/irritation

evaluation corrosive

Sensitization

evaluation non-sensitizing

Other information

Causes burns.

SECTION 12: Ecological information ***

12.1. Toxicity

Daphnia toxicity (Components)

Phosphoric acid

Species Daphnia magna

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EC50	>	100	mg/l
Duration of exposure		48	h
Source	ECHA		

Algae toxicity (Components)**Phosphoric acid**

Species	Desmodesmus subspicatus		
ErC50	>	100	mg/l
Source	ECHA		

12.2. Persistence and degradability**Physico-chemical eliminability**

Remarks	Quantitative data concerning the ecological effect are not available.
Remarks	Elimination from water possible by precipitation or flocculation.

12.3. Bioaccumulative potential**General information**

No data available

12.4. Mobility in soil**General information**

No data available

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential *****

The product contains no PBT or vPvB substances.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1805	1805	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		

SECTION 15: Regulatory information ***

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

Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

H314 Causes severe skin burns and eye damage.

CLP categories listed in Chapter 3

Skin Corr. 1B Skin corrosion, Category 1B

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.