

Trade name: Acid phosphoricum conc 85%

Substance number: 205500

Version: 6 / CH

Date revised: 14.08.2025

Replaces Version: 5 / CH

Print date: 14.08.25

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Acid phosphoricum conc 85%

Item No. 20550000

**Substance / product identification**

UFI X951-F90D-X007-YW1V

**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)

Met. Corr. 1 H290

Acute Tox. 4 H302

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 \*\*\***

H290

May be corrosive to metals.

H302

Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

**Precautionary statements \*\*\***

P234 Keep only in original packaging.  
 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 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.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P310 Immediately call a POISON CENTER or doctor.

**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.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**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  $\geq$  76 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Met. Corr. 1 H290  
 Acute Tox. 4 H302  
 Skin Corr. 1B H314  
 Eye Dam. 1 H318

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

Eye Dam. 1 H318  $\geq$  25 %  
 Skin Corr. 1B H314  $\geq$  25 %  
 Skin Irrit. 2 H315  $\geq$  10 < 25 %  
 Eye Irrit. 2 H319  $\geq$  10 < 25 %

ATE oral 1'530 mg/kg

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

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

Remove contaminated clothing immediately and dispose of safely. Wash contaminated clothing before re-use. Adhere to personal protective measures when giving first aid. If you feel unwell, seek medical advice (show the label where possible).

**After inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Summon a doctor immediately.

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**After skin contact**

Wash off immediately with soap and water and rinse well. Summon a doctor immediately.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Shield unaffected eye.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

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

Causes serious eye damage.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Symptomatic treatment (decontamination, vital functions), no specific antidote known. Keep under medical supervision for at least 48 hours.

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

Water spray jet, Foam, Carbon dioxide, Dry powder, Extinguishing measures to suit surroundings

**Non suitable extinguishing media**

Full water jet

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

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear protective clothing.

**Other information**

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**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. Do not inhale vapours. Avoid contact with skin, eyes and clothing.

**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**

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

**6.4. Reference to other sections**

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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## 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). Avoid inhaling dusts/ billows/ steams. Avoid contact with skin, eyes and clothing. Wear protective equipment. Smoking, eating and drinking should be prohibited in application area.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a well-ventilated place. Keep in a dry place. Keep only in original container. Protect from frost.

#### Hints on storage assembly

Do not store together with foodstuffs. Do not store together with: Bases, Metals

#### 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	2	mg/m <sup>3</sup>
Short term exposure limit	4	mg/m <sup>3</sup>
Pregnancy group: S; Remarks: SSc; Lunge OAW Haut Auge; NIOSH OSHA		

#### Derived No/Minimal Effect Levels (DNEL/DMEL) \*\*\*

##### phosphoric acid ... %

Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10.7	mg/m <sup>3</sup>

Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m <sup>3</sup>

Reference group	Worker
Duration of exposure	Short term
Route of exposure	inhalative
Mode of action	Local effects

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Concentration	2	mg/m <sup>3</sup>
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Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	4.57	mg/m <sup>3</sup>

Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0.36	mg/m <sup>3</sup>

Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0.1	mg/kg/d

## 8.2. Exposure controls

### General protective and hygiene measures

Wash hands before breaks and after work. Remove contaminated, soaked clothing immediately and dispose of safely. Do not eat, drink or smoke during work time. Do not inhale dust/fumes/mist. Avoid contact with skin and eyes. Hold emergency shower available.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, combination filter B-P2; Multi-purpose filter ABEK; EN 14387

### Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	Acryl nitrile	
Material thickness	>= 0.11	mm
Breakthrough time	> 480	min
Appropriate Material	Polychloroprene	
Material thickness	>= 0.65	mm
Breakthrough time	> 480	min

Hand protection must comply with EN 374.

### Eye protection

Tightly fitting safety glasses; DIN EN ISO 16321-1:2022

### 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

Physical state	liquid
Colour	colourless
Odour	sharp

**Boiling point or initial boiling point and boiling range**

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Value	158	°C
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**Upper and lower explosive limits**

Remarks	Not applicable
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**Flash point**

Value	°C
Remarks	Not applicable

**Ignition temperature**

Remarks	Not applicable
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**Decomposition temperature**

Remarks	No decomposition if used as prescribed.
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**pH value**

Value	< 1.0
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**Vapour pressure \*\*\***

Value	23	hPa
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**Density and/or relative density**

Value	1.6	to	1.7	g/cm <sup>3</sup>
Temperature	20	°C		

**9.2. Other information****Solubility in water**

Remarks	Completely miscible
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

Corrosive to metals.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

Exothermic reactions with strong bases. Reacts with light metals to form hydrogen.

**10.4. Conditions to avoid**

Keep away from sources of heat and ignition. Protect from direct sunlight. Protect from frost.

**10.5. Incompatible materials**

Reactions with light metals. Bases, Hypochlorite

**10.6. Hazardous decomposition products**

No hazardous decomposition products known when handled according to prescribed instructions.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	1'738.63	mg/kg
	64	

Method	calculated value (Regulation (EC) No. 1272/2008)
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**Acute oral toxicity (Components)****phosphoric acid ... %**

Species	rat
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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

**Skin corrosion/irritation (Components)****phosphoric acid ... %**

evaluation corrosive

**Serious eye damage/irritation**

evaluation corrosive

**Serious eye damage/irritation (Components)****phosphoric acid ... %**

evaluation corrosive

**Sensitization**

evaluation non-sensitizing

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Other information**

Causes burns.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Daphnia toxicity (Components)****phosphoric acid ... %**

Species Daphnia magna

EC50 &gt; 100 mg/l

Duration of exposure 48 h

Source ECHA

**Algae toxicity (Components)****phosphoric acid ... %**

Species Desmodesmus subspicatus

ErC50 &gt; 100 mg/l

Duration of exposure 72 h

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**

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No data available

**12.4. Mobility in soil****General information**

No data available

**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment \*\*\***

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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




Disposal in compliance with local and national regulations.

Do not dispose of it with household waste.

**Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.

**SECTION 14: Transport information**

	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**



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**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**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

**CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
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.