

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Micro-Etch

Print date: 13.06.2016

Product code: 6100

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

### 1.1. Product identifier

6100

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

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

Company name: Hager& Werken GmbH & Co. KG  
Street: Ackerstraße 1  
Place: D-47269 Duisburg  
Telephone: +49 (0) 203 – 99 26 90      Telefax: +49 (0) 203 – 29 92 83  
e-mail: info@hagerwerken.de  
Internet: www.hagerwerken.de

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is not classified as hazardous according to Directive 1999/45/EC.

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

Hazard categories:  
Skin corrosion/irritation: Skin Corr. 1B  
Hazard Statements:  
May be corrosive to metals.  
Causes severe skin burns and eye damage.

### 2.2. Label elements

#### Hazardous components which must be listed on the label

Phosphoric acid ... %; orthophosphoric acid

Signal word: Danger  
Pictograms: GHS05



#### Hazard statements

H290      May be corrosive to metals.  
H314      Causes severe skin burns and eye damage.

#### Precautionary statements

P280      Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

PHOSPHORIC ACID

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#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
231-633-2	Phosphoric acid ... %; orthophosphoric acid	30 - 45 %
7664-38-2	C - Corrosive R34	
015-011-00-6	Skin Corr. 1B; H314	

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

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### After inhalation

not applicable

###### After contact with skin

After contact with skin, wash immediately with: Water and soap.

###### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

###### After ingestion

Immediately get medical attention.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### Additional information

Material is not combustible.

#### SECTION 6: Accidental release measures

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

Wear suitable protective clothing.

##### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

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

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

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

###### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

###### Further information on handling

Ensure adequate ventilation of the storage area.

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

###### Requirements for storage rooms and vessels

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

Store only in original container.

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#### Advice on storage compatibility

Do not store together with: Alkalis (alkalis). metal.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

#### 8.2. Exposure controls



##### Protective and hygiene measures

When using do not eat or drink.

##### Eye/face protection

Tightly sealed safety glasses.

##### Hand protection

Wear suitable gloves.: NBR (Nitrile rubber). Butyl rubber.

##### Respiratory protection

The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

### SECTION 9: Physical and chemical properties

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

Physical state: Jelly  
Colour: blue

##### Test method

pH-Value: ca. 1

##### Changes in the physical state

Initial boiling point and boiling range: 100 °C

Flash point: not applicable

Lower explosion limits: not applicable

Upper explosion limits:

Ignition temperature: not applicable

Vapour pressure: 20 hPa  
(at 23 °C)

Density: 1,4 g/cm<sup>3</sup>

Water solubility: easily soluble.

Vapour density: < 1

### SECTION 10: Stability and reactivity

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**10.5. Incompatible materials**

Alkalis (alkalis).

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

LD50: Rat. >810mg/kg

**Irritation and corrosivity**

Irritant effect on the eye: Causes burns.

After skin contact: Causes burns.

**SECTION 12: Ecological information**

**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
7664-38-2	Phosphoric acid ... %; orthophosphoric acid					
	Acute fish toxicity	LC50	138 mg/l	96 h	Gambusia affinis	

**Further information**

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Remove according to the regulations.

**Waste disposal number of waste from residues/unused products**

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances  
Classified as hazardous waste.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:**

UN 1805

**14.2. UN proper shipping name:**

PHOSPHORIC ACID SOLUTION

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Classification code:

C1

Limited quantity:

5 L

Transport category:

3

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Hazard No: 80

Tunnel restriction code: E

**Other applicable information (land transport)**

E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 1805

**14.2. UN proper shipping name:** PHOSPHORIC ACID SOLUTION

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Special Provisions: 223

Limited quantity: 5 L

EmS: F-A, S-B

**Other applicable information (marine transport)**

E1

**Air transport (ICAO)**

**14.1. UN number:** UN 1805

**14.2. UN proper shipping name:** PHOSPHORIC ACID SOLUTION

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Special Provisions: A3

Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 852

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 856

IATA-max. quantity - Cargo: 60 L

**Other applicable information (air transport)**

E1

: Y841

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

## 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

## SECTION 16: Other information

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#### Relevant R-phrases (Number and full text)

34 Causes burns.

#### Relevant H- and EUH-phrases (Number and full text)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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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.)*