

Artikelnummer : 152272
Handelsname : Micro-Etch
Druckdatum : 05.09.13

Überarbeitet am : 05.09.13

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

Product identifier

Product group: **Micro-Etch**

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

Details of the supplier of the safety data sheet

Company name: Hager & Werken GmbH & Co. KG
Street: Ackerstr.1
Place: D-47269 Duisburg
Telephone: +49 (0) 203 99269-0
e-mail: info@hagerwerken.de
Internet: www.hagerwerken.de

SECTION 2: Hazards identification

Classification of the substance or mixture

Indications of danger : Corrosive
R-phrases:
Causes burns.

GHS classification

Hazard categories:
Skin corrosion/irritation: Skin Corr. 1B
Serious eye damage/eye irritation: Eye Dam. 1
Hazard Statements:
Causes severe skin burns and eye damage.

Label elements

Hazardous components which must be listed on the label
phosphoric acid ... %, orthophosphoric acid ... %

Signal word: Danger

Pictograms: GHS05



Hazard statements

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

Mixtures

Chemical characterization

PHOSPHORIC ACID

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-633-2	phosphoric acid ... %, orthophosphoric acid ... %	30 - 45 %
7664-38-2	C R34	
015-011-00-6	Skin Corr. 1B; H314	

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

SECTION 4: First aid measures

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

Extinguishing media

Additional information

Material is not combustible.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing.

Environmental precautions

Do not empty into drains or the aquatic environment.

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

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.

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

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits (EH40)

CAS No	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1	-	TWA (8 h)	WEL
		-	2	-	STEL (15 min)	WEL

Exposure controls



Protective and hygiene measures

When using do not eat or drink.

Respiratory protection

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

Hand protection

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

Eye protection

Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Jelly
Colour: blue

pH-Value: ca. 1

Changes in the physical state

Boiling point: 100 °C

Flash point: not applicable

Lower explosion limits: not applicable

Upper explosion limits: not applicable

Ignition temperature: not applicable

Vapour pressure:
(at 23 °C) 20 hPa

Density: 1,4 g/cm³

Water solubility: easily soluble.

Vapour density: < 1

Test method

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SECTION 10: Stability and reactivity

Incompatible materials

Alkalis (alkalis).

SECTION 11: Toxicological information

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

Toxicity

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

Further information

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

SECTION 13: Disposal considerations

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)

UN number: 1805
UN proper shipping name: PHOSPHORIC ACID SOLUTION
Transport hazard class(es): 8
Packing group: III
Hazard label: 8



Classification code: C1
Limited quantity: 5 L

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Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Other applicable information (land transport)
E1

Marine transport

UN number: 1805
UN proper shipping name: PHOSPHORSÄURE, LÖSUNG
Transport hazard class(es): 8
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

UN/ID number: 1805
UN proper shipping name: PHOSPHORSÄURE, LÖSUNG
Transport hazard class(es): 8
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

Environmental hazards

Dangerous for the environment: no

SECTION 15: Regulatory information

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

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

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34 Causes burns.

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

H314 Causes severe skin burns and eye damage.
