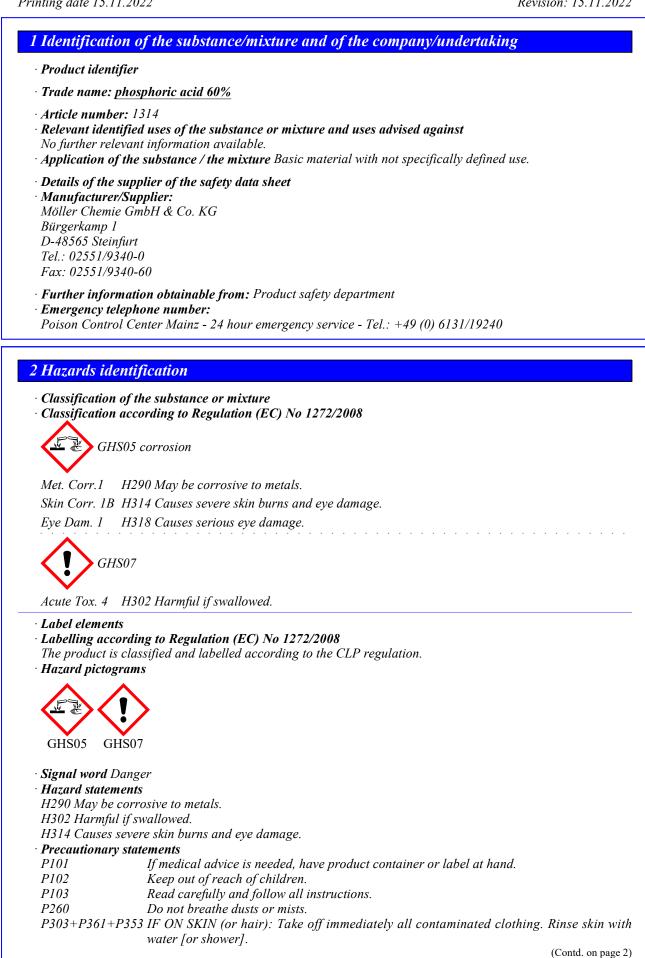
EU

## Safety data sheet according to 1907/2006/EC, Article 31

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#### Trade name: phosphoric acid 60%

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P305+P351	+P338 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/doctor.
P321	Specific treatment (see on this label).
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• Other hazar	ds BT and vPvB assessment
$\cdot \kappa \rho c \mu \pi c \Lambda r P$	<u>ΒΙ ΑΝΑ ΨΡΥΒ Αςςρςςμο</u> μτ

· Results of PBT and vPvB assessment

• *PBT:* Not applicable.

· vPvB: Not applicable.

### 3 Composition/information on ingredients

• Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

 • Dangerous components:

 CAS: 7664-38-2
 phosphoric acid

 EINECS: 231-633-2
 phosphoric acid

 Index number: 015-011-00-6
 ♦ Met. Corr. 1, H290; Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302

60.0%

#### · Additional information:

For the wording of the listed hazard phrases refer to section 16. CAS No.: 7664-38-2 phosphoric acid 85% REACH registration number: 01-2119485924-24

### 4 First aid measures

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eve contact: Rinse opened eve for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture
- Spilled material will react with base metals to form hydrogen gas.
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

### 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Avoid contact with eyes and skin

Wear protective equipment. Keep unprotected persons away.

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- · Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust). Use neutralising agent.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### 7 Handling and storage

#### · Handling:

- **Precautions for safe handling** Avoid contact with skin, eyes and clothing. When diluting always pour product into water and not vice versa.
- Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Keep container tightly closed.
- Information about storage in one common storage facility: Store separately from bases.
- *Further information about storage conditions:* Keep container tightly closed, dry, at 15 20 ° C.
- Storage class: 8 B (non-flammable, corrosive hazardous substances (except only metal-corrosive))
- Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters

· Ingredients with limit values that require monitoring at the workplace:

- 7664-38-2 phosphoric acid
- IOELV Short-term value: 2 mg/m<sup>3</sup>
  - Long-term value: 1 mg/m<sup>3</sup>

• Additional information: The lists valid during the making were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.
- **Respiratory protection:** Filter P2
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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### · Material of gloves

Butyl rubber, BR Nitrile rubber, NBR Natural rubber, NR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Acid resistant protective clothing

## 9 Physical and chemical properties

General Information		
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value at 20 °C:	ca. 1	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	2: 100 °C	
Flash point:	not applicable	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not determined.	
Density at 20 °C:	1.417 - 1.436 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
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Kinematic:

Not determined.

• Other information

No further relevant information available.

### **10 Stability and reactivity**

· *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions
- Reacts with metals forming hydrogen.
- Strong warming when diluted with water.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:
- Strong bases
- Light metals

· Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

#### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity:
- Harmful effect on fish, plankton and sessile organisms due to pH shift.
- Phosphates contribute to eutrophication in standing water.
- · Persistence and degradability
- Anorganic product, is not eliminable from water by means of biological cleaning processes.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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### · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

• Other adverse effects No further relevant information available.

# **13 Disposal considerations**

• Waste treatment methods

· Recommendation Disposal according to local regulations.

• Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number ADR, IMDG, IATA	UN1805
UN proper shipping name ADR IMDG, IATA	1805 PHOSPHORIC ACID, SOLUTION PHOSPHORIC ACID, SOLUTION
Transport hazard class(es)	
ADR	
a a a a a a a a a a a a a a a a a a a	
Class	8 (C1) Corrosive substances.
Label	8
	8 Corrosive substances.
Label	8
Packing group ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category	Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids A
Transport in bulk according to Annex II of Mar and the IBC Code	<b>pol</b> Not applicable.

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· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
·IMDG	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities ( $\widetilde{E}Q$ )	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

- · Directive 2012/18/EU
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

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

#### · Department issuing SDS: Product safety department

· Contact: Mrs. Steyer

#### • Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1