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

· 1.1 Product identifier

• Trade name: Phosphoric acid 85 %

• Article number: 97

· Registration number 01-2119485924-24

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

No further relevant information available.

· Application of the substance / the mixture Chemical.

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Möller Chemie GmbH & Co. KG Bürgerkamp 1 D-48565 Steinfurt Tel.: 02551/9340-0 Fax: 02551/9340-60

· Further information obtainable from: Product safety department

· 1.4 Emergency telephone number:

Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Met. Corr.1H290 May be corrosive to metals.Skin Corr. 1BH314 Causes severe skin burns and eye damage.Eye Dam. 1H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. • *Hazard pictograms*



Signal word Danger
 Hazard statements

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

 Precautionary statements

 P101
 If medical advice is needed, have product container or label at hand.
 P102
 Keep out of reach of children.
 P103
 Read carefully and follow all instructions.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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P305+P351+P3	38 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).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.

· 2.3 Other hazards

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

· Results of PBT and vPvB assessment

· PBT:

The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).

· vPvB:

The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** aqueous solution

Dangerous components:

• Dangerous components:		
CAS: 7664-38-2	phosphoric acid	85.0%
EINECS: 231-633-2	📀 Met. Corr.1, H290; Skin Corr. 1B, H314; 🕔 Acute Tox. 4, H302	
Index number: 015-011-00-6	Specific concentration limits: Skin Corr. 1B; H314: $C \ge 25 \%$	
	<i>Skin Irrit. 2; H315: 10 % ≤ C < 25 %</i>	
	<i>Eye Irrit. 2; H319: 10 % ≤ C < 25 %</i>	
· Additional information · For	the wording of the listed hazard phrases refer to section 16	

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 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 eye contact: Rinse opened eye 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.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

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SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Avoid contact with eyes and skin
- · 6.2 Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water. · 6.3 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.

6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

When diluting always pour product into water and not vice versa. Avoid contact with skin, eyes and clothing.

· Information about fire - and explosion protection: No special measures required.

- · 7.2 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: Do not store together with alkalis (caustic solutions).
- · Further information about storage conditions: Keep container tightly sealed. Storage temperature:> $20 \circ C$
- Storage class: 8B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

7664-38-2 phosphoric acid

IOELV Short-term value: 2 mg/m³

Long-term value: 1 mg/m³

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

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · Respiratory protection: Suitable respiratory protective device recommended.
- · Hand protection



Protective gloves

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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

• 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/face protection



Tightly sealed goggles

· Body protection: Acid resistant protective clothing

SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid Colourless · Colour: · Odour: **Odourless** • *Melting point/freezing point:* 21 °C · Boiling point or initial boiling point and boiling 158 °C range · Flash point: not applicable • pH at 20 °C 1 · Solubility · water: Fully miscible. 2 hPa • Vapour pressure at 20 °C: · Density and/or relative density · Density at 20 °C: 1.71 g/cm³ • 9.2 Other information · Appearance: · Form: Fluid · Important information on protection of health and environment, and on safety. • Auto-ignition temperature: Product is not selfigniting. • Explosive properties: Product does not present an explosion hazard. · Information with regard to physical hazard classes Void · Explosives Void · Flammable gases Void · Aerosols · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void (Contd. on page 5)

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· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamme	ıble	
gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
• Corrosive to metals		
May be corrosive to metals.		
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with light alloys to form hydrogen. Reacts with alkali (lyes).
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Strong bases Light metals

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- · Acute toxicity
- Harmful if swallowed.
- · LD/LC50 values relevant for classification:
- LD50 / oral / rat: 1530 mg/kg
- LD50 / dermal / rabbit: 2740 mg/kg
- · 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.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- \cdot 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.
- Additional toxicological information:
- The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.
- · 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:
- Fish toxicity:
- LC0 : 100 1000 mg/l
- · 12.2 Persistence and degradability
- Anorganic product, is not eliminable from water by means of biological cleaning processes.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
- vPvB: This substance is not considered to be very persistent nor very bioaccumulative (vPvB).
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- 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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

· 13.1 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.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1805	
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1805 PHOSPHORIC ACID, SOLUTION PHOSPHORIC ACID, SOLUTION	
· 14.3 Transport hazard class(es)		
· ADR		
a a construction of the second s		
· Class	8 (C1) Corrosive substances.	
· Label	8	
		(Contd. on page 7

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· IMDG, IATA	
Class Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Corrosive substances. 80 F-A,S- A
14.7 Maritime transport in bulk according to IM instruments	<i>IO</i> Not applicable.
Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml
Transport category Tunnel restriction code	Maximum net quantity per outer packaging: 1000 ml 3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 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

SECTION 15: Regulatory information

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

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 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

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Abbraui	ations and acronyms:
	ement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerni
	nal Transport of Dangerous Goods by Rail)
	ernational Civil Aviation Organisation
	ord relatif au transport international des marchandises dangereuses par route (European Agreement Concerni
Internatio	nal Carriage of Dangerous Goods by Road)
IMDG: In	ternational Maritime Code for Dangerous Goods
IATA: Inte	rnational Air Transport Association
GHS: Glo	bally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS: I	European List of Notified Chemical Substances
CAS: Che	nical Abstracts Service (division of the American Chemical Society)
LC50: Let	hal concentration, 50 percent
LD50: Let	hal dose, 50 percent
PBT: Pers	istent, Bioaccumulative and Toxic
vPvB: ver	y Persistent and very Bioaccumulative
Met. Corr	1: Corrosive to metals – Category 1
	4: Acute toxicity – Category 4
	1B: Skin corrosion/irritation – Category 1B
	1: Serious eve damage/eve irritation – Category 1