

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 08.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.140360.00000
Product Name Phosphoric acid 85%
Cas no 7664-38-2

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

1.2.1. Relevant identified uses

Industrial use. Use as a laboratory reagent. Scientific research and development.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Corrosive to metals, Category 1
Acute toxicity, Oral, Category 4
Skin Corrosion, Subcategory 1B
Serious eye damage, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER


Hazard Statements (SEA)

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

Precautionary Statements (SEA)



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

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Prevention

- P234 Store only in original container.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

- P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	231-633-2
Molar mass	97.99 g/mol
Cas No	7664-38-2
Concentration	(>= 70 % - < 90 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove casualty to fresh air and keep warm and at rest..
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
Following ingestion	Give up to two glasses of water. Get medical help immediately. Do not induce vomiting. Do not try to neutralize.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

May form free in case of fire: Phosphorus oxides. It is not flammable. All-round fire can release dangerous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



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Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Metal packaging should not be used.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Phosphoric acid (7664-38-2)

TR OEL Another time unless stated, 15 for a minute not to be exceeded upper limit of exposure value (STEL): 2 mg / m³

8 hour set for reference time measured or calculated time weighted average (TWA): 1 mg/m³

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Fully fitting safety glasses

Hand protection



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Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Acid-resistant protective clothing

Respiratory protection

Required when vapors/aerosols are generated.

Recommended Filter type: Filter P 2 for solid and liquid particles of harmful elements (according to DIN 3181)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent
Odour	Odourless
Odour threshold	Not applicable.
pH value	< 0,5 100 g/l 20 °C
Melting point/freezing point	21 °C
Freezing point	No information.
Initial boiling point and boiling range	158 °C 1.013 hPa
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	2 hPa 20 °C
Vapour density	No information.
Density	1,71 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	30,5 mm ² /s 20 °C
Explosive properties	It is not classified as explosive.
Oxidising properties	No information.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.



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10.3 Possibility of hazardous reactions

There is a risk of explosion or formation of flammable gases or vapors with metals, metal alloys. Violent reactions possible with bases, metallic oxides.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Hydrogen is released as a result of the reaction with aluminum, iron, iron-containing compounds, mild steel metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: approx 2.600 mg / kg

OECD Test Guideline 423

Symptoms: Risk of perforation of the esophagus and stomach with severe burning of the mouth and throat if swallowed.

Acute dermal toxicity

LD50 Rabbit: 2.740 mg / kg

(IUCLID)

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages :, damage to respiratory system

Skin irritation

Rabbit

Result: Causes burns.

US-EPA

Its mixture causes burns.

Eye irritation

Rabbit

Result: Causes burns.

(IUCLID)

11.2 Additional information

Risk of irritation and corrosion, cough, shortness of breath, pain, spasm, shock, conjunctivitis, blindness!

Systemic effects:

Convulsions, shock.


Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity



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Toxicity to fish

LC50 Gambusia affinis (mosquito fish): 138 mg / l; 96 hrs
(External product safety form)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 Daphnia magna (Water flea):> 100 mg / l; 48 hrs

Analytical monitoring: yes

OECD Test Guideline 202

Toxicity to algae (algae)

static test ErC50 Desmodesmus subspicatus (green algae):> 100 mg / l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201

Toxicity to bacteria

EC50 active waste: 270 mg / l

(IUCLID)

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Discharge into environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 1805	UN 1805	UN 1805	UN 1805	UN 1805
14.2 UN proper shipping name PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION
14.3 Transport hazard class(es) 8	8	8	8	8



14.4 Packing group

III III III III III

14.5 Environmental hazards



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YES YES YES YES YES

No information available. No information available. No information available. No information available. No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H290 May corrode metals.

H302 Harmful if swallowed.


H314 Causes severe skin burns and eye damage.

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER
Certificate Number and Date: 11.29.03 & 11 Şubat 2020
Communication information: 05069903686



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