# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product identifier**

<table>
<thead>
<tr>
<th>Product code:</th>
<th>P1091</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE</td>
</tr>
</tbody>
</table>

**Other means of identification**

| Synonyms: | Orthophosphoric acid, 85% |
| CAS #: | 7664-38-2 |
| RTECS #: | TB6300000 |
| Cl#: | Not available |

**Recommended use of the chemical and restrictions on use**

| Recommended use: | Acidifying agent. |
| Uses advised against | No information available |

**Supplier:**

Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA  90248  
(310) 516-8000

**Order Online At:** [https://www.spectrumchemical.com](https://www.spectrumchemical.com)  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| Acute toxicity - Oral | Category 4 |
| Skin corrosion/irritation | Category 1 |
| Serious eye damage/eye irritation | Category 1 |
| Corrosive to metals | Category 1 |

**Label elements**

**Danger**

**Hazard statements**

Harmful if swallowed  
Causes severe skin burns and eye damage  
May be corrosive to metals
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Keep only in original container

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
Absorb spillage to prevent material damage
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up
Store in corrosive resistant/ container with a resistant inner liner

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>7664-38-2</td>
<td>85-88</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>12-15</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call

Product code: P1091  Product name: PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE
Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
Severe skin and eye irritation or burns
Skin contact may result in redness, pain, inflammation, itching, scaling
Inflammation of the eye is characterized by redness, watering and itching
Harmful if swallowed
Coughing and wheezing
Choking sensation
Dyspnea (Shortness of breath and difficulty breathing)

Notes to Physician: Treat symptomatically.

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Phosphorus oxides
Hazardous Combustion Products: No information available.
Specific hazards: Contact with metals may evolve flammable hydrogen gas. Formation of flammable gases with aldehydes, cyanides, mercaptans, and sulfides.

Special Protective Actions for Firefighters
Specific Methods: No information available.

Product code: P1091
Product name: PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE
Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk.

Methods for cleaning up Neutralize with Sodium carbonate or Sodium bicarbonate. Dilute with water. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. May corrode metallic surfaces. Do not store in uncoated metallic containers. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:
- Oxidizing agents
- Combustible materials
- Metals
- Alkalis
- Bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<td>3 mg/m³ STEL</td>
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Product code: P1091  
Product name: PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE
Canada

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<td></td>
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<td>3 mg/m³ STEL</td>
<td>3 mg/m³ STEV</td>
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Australia and Mexico

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<tr>
<td>Water</td>
<td>7732-18-5</td>
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<td>None</td>
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</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- **Eye protection:** Face-shield
- **Skin and body protection:** Chemical resistant protective suit, Gloves, Boots
- **Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state:** Liquid
- **Appearance:** Syrupy. Viscous.
- **Color:** Clear. Colorless.
- **Odor:** Odorless.
- **Taste:** Acid.
- **Formula:** H₃PO₄
- **Molecular/Formula weight:** 98.00
- **Flammability:** No information available
- **Flashpoint (°C/°F):** No information available
- **Autoignition Temperature (°C/°F):** No information available
- **Lower Explosion Limit (%):** No information available
- **Upper Explosion Limit (%):** No information available
- **Melting point/range(°C/°F):** 21°C/ 69.8°F
- **Density (g/cm³):** No information available
- **Boiling point/range(°C/°F):** 158°C/ 316°F
- **Density (g/cm³):** No information available
- **Specific gravity:** 1.685
- **pH:** No information available
- **Vapor pressure @ 20°C (kPa):** 0.3

**Product code:** P1091  **Product name:** PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE
10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents, combustible materials, metals, alkalis
Evolved flammable hydrogen gas on contact with metals

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials:
- Oxidizing agents
- Combustible materials
- Metals
- Alkalis
- Bases

Hazardous decomposition products:
Phosphorus oxides.

Other Information

Corrosivity:
- Extremely corrosive in presence of copper
- Extremely corrosive in the presence of stainless steel (316)
- Extremely corrosive in the presence of stainless steel (304)
- Highly corrosive in presence of aluminum
- Non-corrosive in the presence of glass

Special Remarks on Corrosivity: Minor corrosive effect on bronze Severe corrosive effect on brass Corrosive to ferrous metals and alloys

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity
Component Information

### Phosphoric Acid

**CAS-No.** 7664-38-2

- **LD50/oral/rat** = 1530 mg/kg Oral LD50 Rat
- **LD50/oral/mouse** = No information available
- **LD50/dermal/rabbit** = 2730 mg/kg Dermal LD50 Rabbit; 2740 mg/kg Dermal LD50 Rabbit
- **LD50/dermal/rat** = No information available
- **LC50/inhalation/rat** = >850 mg/m³ Inhalation LC50 Rat 1 h
- **LC50/inhalation/mouse** = No information available
- **Other LD50 or LC50 information** = No information available

### Water

**CAS-No.** 7732-18-5

- **LD50/oral/rat** = > 90 mL/kg Oral LD50 Rat
- **LD50/oral/mouse** = No information available
- **LD50/dermal/rabbit** = No information available
- **LD50/dermal/rat** = No information available
- **LC50/inhalation/rat** = No information available
- **LC50/inhalation/mouse** = No information available
- **Other LD50 or LC50 information** = No information available

Product Information

- **LD50/oral/rat** = VALUE - Acute Tox Oral = No information available
- **LD50/oral/mouse** = Value - Acute Tox Oral = No information available
- **LD50/dermal/rabbit** = VALUE - Acute Tox Dermal = No information available
- **LD50/dermal/rat** = VALUE - Acute Tox Dermal = No information available
- **LC50/inhalation/rat** = VALUE - Vapor = No information available
- **VALUE - Gas** = No information available
- **VALUE - Dust/Mist** = No information available
- **LC50/Inhalation/mouse** = VALUE - Vapor = No information available
- **VALUE - Gas** = No information available
- **VALUE - Dust/Mist** = No information available

**Symptoms**

**Skin Contact:** Corrosive. Contact causes severe skin irritation and possible burns. May affect behavior (somnolence or excitement) if absorbed through skin.

**Eye Contact:** Corrosive. Liquid or vapor causes severe eye irritation and can cause severe eye burns leading to permanent corneal damage or chemical conjunctivitis.

**Inhalation** Causes irritation or possible burns of the respiratory tract and mucous membranes with sore throat, coughing, shortness of breath and pulmonary edema. It may also cause ulceration and perforation of the nasal septum.

**Product code:** P1091 **Product name:** PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE
Ingestion
Harmful if swallowed. Causes irritation of the digestive tract (mouth, throat (oropharyngeal mucosa), esophagus, stomach). Can cause corrosion (burns) and permanent tissue destruction of digestive tract. Causes severe abdominal pain, nausea, vomiting (sometimes bloody), diarrhea (sometimes watery and bloody), gastrointestinal hemorrhaging, hypotension, and shock. May affect behavior (seizures, coma) and urinary system (scanty urine), liver (hepatocellular damage, hepatic enzymes increased), blood (blood dyscrasias). May also cause aspiration pneumonitis, acute pulmonary edema, Hypocalcemia, Hyperphosphatemia or Hypophosphatemia, Hypomagnesemia, and acidosis.

Aspiration hazard
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
Skin: Prolonged or repeated skin contact may cause drying and cracking of the skin, which can lead to secondary infections or dermatitis, an allergic reaction. Ingestion: Prolonged or repeated ingestion will have similar effects as acute ingestion. It may also affect the brain. Prolonged or repeated eye contact can cause conjunctivitis. Repeated exposure may cause bronchitis to develop with cough, phlegm, and/or shortness of breath.

Sensitization:
No information available.

Mutagenic Effects:
No information available.

Carcinogenic effects:
Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<td>Not listed</td>
<td>Not listed</td>
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</table>

ACGIH (American Conference of Governmental Industrial Hygienists)
IARC (International Agency for Research on Cancer)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity
No data is available

Reproductive Effects:
No information available

Developmental Effects:
No information available

Teratogenic Effects:
No information available

Specific Target Organ Toxicity

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Target Organs:

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:
Aquatic environment.

Product code: P1091
Product name: PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE
Phosphoric Acid - 7664-38-2

Freshwater Fish Species Data: 3 - 3.5 mg/L LC50 Gambusia affinis 96 h
Water Flea Data: 4.6 mg/L EC50 Daphnia magna 12 h

Persistence and degradability: No information available
Bioaccumulative potential: No information available.
Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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<td>Phosphoric Acid</td>
<td>7664-38-2</td>
<td>None</td>
<td>None</td>
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<td>7732-18-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN1805
Proper Shipping Name: Phosphoric acid solution
Hazard Class: 8
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: 154

TDG (Canada)

UN-No: UN1805
Proper Shipping Name: Phosphoric acid, solution
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No Information available
Description: UN1805, Phosphoric acid, solution, 8, III

ADR

UN-No: UN1805
Proper Shipping Name: Phosphoric acid, solution
Hazard Class: 8
Packing Group: III
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (1)-422</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
</table>

U.S. Regulations

Phosphoric Acid

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1516
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard

Product code: P1091  Product name: PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE

Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<td>Water</td>
<td>7732-18-5</td>
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CERCLA/SARA

<table>
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<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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U.S. TSCA

<table>
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<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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</table>

Canada

WHIMIS 2015 - GHS Classifications

<table>
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<th>Component</th>
<th>WHIMIS 2015 Hazard Classification Information</th>
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<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>Corrosive to Metals - Category 1: H290 May be corrosive to metals. (potentially corrosive to metals; the supplier should be contacted for more information); Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage. Not a dangerous product according to HPR classification criteria</td>
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<tr>
<td>Water</td>
<td>This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR</td>
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WHIMIS 1988 Hazard Class

<table>
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<th>Product code</th>
<th>Product name</th>
</tr>
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<tbody>
<tr>
<td>P1091</td>
<td>PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE</td>
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</tbody>
</table>
Corrosive material

**Components**

- **Phosphoric Acid**
- **Water**

WHMIS 1988

- E including 5-35% in aqueous solution, 35%, aqueous solution 35-80%, 85% or less
- Uncontrolled product according to WHMIS classification criteria

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

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<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
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**Inventory**

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<table>
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<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>7664-38-2</td>
<td>Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (C &gt;= 25 %) 015-011-00-6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (C &gt;= 25 %); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation. (10 % &lt;= C &lt;25 %); Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation. (10 % &lt;= C &lt;25 %) 015-011-00-6</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

**EU - CLP (1272/2008)**

**R-phrase(s)**

R34 - Causes burns.

**S-phrase(s)**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 1/2 - Keep locked up and out of the reach of children.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>7664-38-2</td>
<td>C; R34</td>
<td>10%&lt;=C&lt;25% Xi;</td>
<td>S(1/2) S26 S45</td>
</tr>
</tbody>
</table>

**Product code:** P1091  
**Product name:** PHOSPHORIC ACID, 85 PERCENT, ELECTRONIC GRADE
The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
C - Corrosive.

C

16. OTHER INFORMATION
Preparation Date: 05/29/2015
Revision Date: 06/20/2018
Prepared by: Sonia Owen

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End of Safety Data Sheet