

# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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## PHOSPHORIC ACID 75%

Revision 2  
Revision date 2026-08-07

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

#### 1.1. Product identifier

|              |                     |
|--------------|---------------------|
| Product name | PHOSPHORIC ACID 75% |
| CAS No.      | 7664-38-2           |
| EC No.       | 231-633-2           |

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

|             |                    |
|-------------|--------------------|
| Description | No data available. |
|-------------|--------------------|

#### 1.3. Details of the supplier of the safety data sheet

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Company                               | Star International                                                                      |
| Address                               | Star House, Turbine Road,<br>Turbine Business Park,<br>Birkenhead, Merseyside, CH41 9BA |
| Web                                   | www.star-international.co.uk                                                            |
| Telephone                             | +44 (0) 1244 504 500                                                                    |
| Fax                                   |                                                                                         |
| Email                                 | enquiries@star-international.co.uk                                                      |
| Email address of the competent person | enquiries@star-international.co.uk                                                      |

#### 1.4. Emergency telephone number

|                            |                      |
|----------------------------|----------------------|
| Emergency telephone number | +44 (0) 1244 504 500 |
| Company                    | Star International   |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

|                                      |                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------|
| 2.1.2. Classification - EC 1272/2008 | Met. Corr. 1: H290; Acute Tox. 4: H302; Acute Tox. 5: H313; Skin Corr. 1B: H314; Eye Dam. 1: H318; |
|--------------------------------------|----------------------------------------------------------------------------------------------------|

#### 2.2. Label elements

|                   |                                                                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms |                                                                          |
| Signal Word       | Danger                                                                                                                                                      |
| Hazard Statement  | Met. Corr. 1: H290 - May be corrosive to metals.<br>Acute Tox. 4: H302 - Harmful if swallowed.<br>Acute Tox. 5: H313 - May be harmful in contact with skin. |

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## 2.2. Label elements

|                                        |                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary Statement:<br>Prevention | Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.                                                                                    |
|                                        | P234 - Keep only in original container.                                                                                                           |
|                                        | P260 - Do not breathe dust/fume/gas/mist/vapours/spray.                                                                                           |
|                                        | P264 - Wash thoroughly after handling.                                                                                                            |
|                                        | P270 - Do not eat, drink or smoke when using this product.                                                                                        |
| Precautionary Statement:<br>Response   | P280 - Wear protective gloves/protective clothing/eye protection/face protection.                                                                 |
|                                        | P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.                                                                        |
|                                        | P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.                                                                               |
|                                        | P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
|                                        | P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                            |
| Precautionary Statement:<br>Storage    | 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/ .                                                                                                 |
|                                        | P312 - Call a POISON CENTER/doctor/ if you feel unwell.                                                                                           |
|                                        | P321 - Specific treatment (see on this label).                                                                                                    |
|                                        | P330 - Rinse mouth.                                                                                                                               |
| Precautionary Statement:<br>Disposal   | P363 - Wash contaminated clothing before reuse.                                                                                                   |
|                                        | P390 - Absorb spillage to prevent material damage.                                                                                                |
|                                        | P405 - Store locked up.                                                                                                                           |
|                                        | P406 - Store in corrosive resistant/ container with a resistant inner liner.                                                                      |
|                                        | P501 - Dispose of contents/container to                                                                                                           |

## 2.3. Other hazards

|               |                                       |
|---------------|---------------------------------------|
| Other hazards | No data is available on this product. |
|---------------|---------------------------------------|

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

EC 1272/2008

| Chemical Name                                 | Index No. | CAS No.   | EC No.    | REACH Registration Number | Conc. (%w/w) | Classification                                                                                     |
|-----------------------------------------------|-----------|-----------|-----------|---------------------------|--------------|----------------------------------------------------------------------------------------------------|
| PHOSPHORIC ACID 75%<br>(Orthophosphoric acid) |           | 7664-38-2 | 231-633-2 |                           | 90 - 100%    | Met. Corr. 1: H290; Acute Tox. 4: H302; Acute Tox. 5: H313; Skin Corr. 1B: H314; Eye Dam. 1: H318; |

## Further information

|  |                                 |
|--|---------------------------------|
|  | No cumulative effects reported. |
|--|---------------------------------|

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

|              |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|
| Inhalation   | Move the exposed person to fresh air.                                             |
| Eye contact  | Rinse immediately with plenty of water for 15 minutes holding the eyelids open.   |
| Skin contact | Wash off immediately with plenty of soap and water. Remove contaminated clothing. |
| Ingestion    | DO NOT INDUCE VOMITING.                                                           |

## 4.2. Most important symptoms and effects, both acute and delayed

|              |                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------|
| Inhalation   | Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. |
| Eye contact  | May cause irritation to eyes.                                                                   |
| Skin contact | May cause irritation to skin.                                                                   |
| Ingestion    | Ingestion may cause nausea and vomiting.                                                        |

## 4.3. Indication of any immediate medical attention and special treatment needed

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## 4.3. Indication of any immediate medical attention and special treatment needed

|              |                                                                          |
|--------------|--------------------------------------------------------------------------|
| Inhalation   | If you feel unwell, seek medical advice (show the label where possible). |
| Eye contact  | Seek medical attention.                                                  |
| Skin contact | Seek medical attention if irritation or symptoms persist.                |
| Ingestion    | If you feel unwell, seek medical advice (show the label where possible). |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|  |                                                                         |
|--|-------------------------------------------------------------------------|
|  | Use extinguishing media appropriate to the surrounding fire conditions. |
|--|-------------------------------------------------------------------------|

### 5.2. Special hazards arising from the substance or mixture

|  |                                                         |
|--|---------------------------------------------------------|
|  | Burning produces irritating, toxic and obnoxious fumes. |
|--|---------------------------------------------------------|

### 5.3. Advice for firefighters

|  |                                                                  |
|--|------------------------------------------------------------------|
|  | Wear self contained breathing apparatus and protective clothing. |
|--|------------------------------------------------------------------|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|  |                                                                                    |
|--|------------------------------------------------------------------------------------|
|  | Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. |
|--|------------------------------------------------------------------------------------|

### 6.2. Environmental precautions

|  |                                                                         |
|--|-------------------------------------------------------------------------|
|  | Do not allow product to enter drains. Prevent further spillage if safe. |
|--|-------------------------------------------------------------------------|

### 6.3. Methods and material for containment and cleaning up

|  |                                                                                                              |
|--|--------------------------------------------------------------------------------------------------------------|
|  | Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. |
|--|--------------------------------------------------------------------------------------------------------------|

### 6.4. Reference to other sections

|  |                                                  |
|--|--------------------------------------------------|
|  | See section 2, 8 and 13 for further information. |
|--|--------------------------------------------------|

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|  |                                                                                                                                                                      |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing. |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 7.2. Conditions for safe storage, including any incompatibilities

|  |                                                                                                                    |
|--|--------------------------------------------------------------------------------------------------------------------|
|  | Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers. |
|--|--------------------------------------------------------------------------------------------------------------------|

### 7.3. Specific end use(s)

|  |                                                                                                                         |
|--|-------------------------------------------------------------------------------------------------------------------------|
|  | See section 1.2. Relevant identified uses of the substance or mixture and uses advised against for further information. |
|--|-------------------------------------------------------------------------------------------------------------------------|

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|  |                                 |
|--|---------------------------------|
|  | Occupational exposure controls. |
|--|---------------------------------|

#### 8.1.1. Exposure Limit Values

|                                               |                                                  |                                                    |
|-----------------------------------------------|--------------------------------------------------|----------------------------------------------------|
| PHOSPHORIC ACID 75%<br>(Orthophosphoric acid) | WEL 8-hr limit ppm: -                            | WEL 8-hr limit mg/m3: 1                            |
|                                               | WEL 15 min limit ppm: -                          | WEL 15 min limit mg/m3: 2                          |
|                                               | WEL 8-hr limit mg/m3 total -<br>inhalable dust:  | WEL 15 min limit mg/m3 total -<br>inhalable dust:  |
|                                               | WEL 8-hr limit mg/m3 total -<br>respirable dust: | WEL 15 min limit mg/m3 total -<br>respirable dust: |
|                                               |                                                  |                                                    |

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## 8.2. Exposure controls

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| 8.2.1. Appropriate engineering controls | Ensure adequate ventilation of the working area.     |
| 8.2.2. Individual protection measures   | Wear protective clothing.                            |
| Eye / face protection                   | Approved safety goggles.                             |
| Skin protection - Handprotection        | Wear suitable gloves.                                |
| Skin protection - Other                 | Wear suitable protective clothing.                   |
| Respiratory protection                  | Wear suitable respiratory equipment when necessary.  |
| Occupational exposure controls          | Keep away from food, drink and animal feedingstuffs. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                           |                   |
|---------------------------|-------------------|
| Appearance                | Liquid            |
| Colour                    | Colourless/Yellow |
| Odour                     | Pungent           |
| pH                        | < 1               |
| Melting point             | -17 °C            |
| Initial boiling point     | 135 °C            |
| Flash point               | Not applicable.   |
| Flammability (solid, gas) | No data available |
| Vapour pressure           | 1333.2 Pa         |
| Autoignition temperature  | No data available |
| Decomposition temperature | No data available |
| Solubility                | Miscible in water |

### 9.2. Other information

|                  |                                |
|------------------|--------------------------------|
| Specific gravity | 1.57 - 1.585 g/cm <sup>3</sup> |
|------------------|--------------------------------|

#### 9.2.1. Information with regard to physical hazard classes

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

#### 9.2.2. Other safety characteristics

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|  |                                 |
|--|---------------------------------|
|  | Stable under normal conditions. |
|--|---------------------------------|

### 10.2. Chemical stability

|  |                                 |
|--|---------------------------------|
|  | Stable under normal conditions. |
|--|---------------------------------|

### 10.3. Possibility of hazardous reactions

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

### 10.4. Conditions to avoid

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

### 10.5. Incompatible materials

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

### 10.6. Hazardous decomposition products

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

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## SECTION 11: Toxicological information

## 11.1 Information on hazard classes

|                               |                               |
|-------------------------------|-------------------------------|
| Skin corrosion/irritation     | May cause irritation to skin. |
| Serious eye damage/irritation | May cause irritation to eyes. |

## 11.1.4. Toxicological Information

|                     |                               |
|---------------------|-------------------------------|
| PHOSPHORIC ACID 75% | Oral Rat LD50: 300-2000 mg/kg |
|---------------------|-------------------------------|

## 11.2 Information on other hazards

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## SECTION 12: Ecological information

## 12.1. Toxicity

|                     |                                |                        |
|---------------------|--------------------------------|------------------------|
| PHOSPHORIC ACID 75% | Daphnia EC50/48h: 100.000 mg/l | Daphnia LC50/48h: mg/L |
|---------------------|--------------------------------|------------------------|

## 12.2. Persistence and degradability

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## 12.3. Bioaccumulative potential

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## 12.4. Mobility in soil

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## 12.5. Results of PBT and vPvB assessment

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## 12.6 Endocrine disrupting properties

|  |                                                                            |
|--|----------------------------------------------------------------------------|
|  | This product does not contain any known or suspected endocrine disruptors. |
|--|----------------------------------------------------------------------------|

## 12.7. Other adverse effects

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

|  |                                                                   |
|--|-------------------------------------------------------------------|
|  | Dispose of in compliance with all local and national regulations. |
|--|-------------------------------------------------------------------|

## Disposal methods

|  |                                            |
|--|--------------------------------------------|
|  | Contact a licensed waste disposal company. |
|--|--------------------------------------------|

## Disposal of packaging

|  |                                                         |
|--|---------------------------------------------------------|
|  | Empty containers can be sent for disposal or recycling. |
|--|---------------------------------------------------------|

## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

|  |        |
|--|--------|
|  | UN1805 |
|--|--------|

## 14.2. UN proper shipping name

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## 14.2. UN proper shipping name

|  |                           |
|--|---------------------------|
|  | PHOSPHORIC ACID, SOLUTION |
|--|---------------------------|

## 14.3. Transport hazard class(es)

|                 |   |
|-----------------|---|
| ADR/RID         | 8 |
| Subsidiary risk | - |
| IMDG            | 8 |
| Subsidiary risk | - |
| IATA            | 8 |
| Subsidiary risk | - |

## 14.4. Packing group

|               |     |
|---------------|-----|
| Packing group | III |
|---------------|-----|

## 14.5. Environmental hazards

|                       |    |
|-----------------------|----|
| Environmental hazards | No |
| Marine pollutant      | No |

## ADR/RID

|                 |     |
|-----------------|-----|
| Hazard ID       | 80  |
| Tunnel Category | (E) |

## IMDG

|          |         |
|----------|---------|
| EmS Code | F-A S-B |
|----------|---------|

## IATA

|                                 |      |
|---------------------------------|------|
| Packing Instruction (Cargo)     | 856  |
| Maximum quantity                | 60 L |
| Packing Instruction (Passenger) | 852  |
| Maximum quantity                | 5 L  |

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulations | <p>REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p> <p>COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p> |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 15.2. Chemical safety assessment

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## SECTION 16: Other information

## Other information

|          |                                                                                                                      |
|----------|----------------------------------------------------------------------------------------------------------------------|
| Revision | This document differs from the previous version in the following areas:<br>2 - 2.1.2. Classification - EC 1272/2008. |
|----------|----------------------------------------------------------------------------------------------------------------------|

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## Other information

|                                        |                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acronyms                               | 2 - Precautionary Statement: Response.                                                                                                                                                                                                                                                                                                                        |
|                                        | BCF: Bioconcentration factor.<br>BLV: Biological limit value.<br>BMD: Benchmark dose.<br>BOD: Biochemical oxygen demand.<br>COD: Chemical oxygen demand.<br>DMEL: Derived minimal effect level.<br>DNEL: Derived no-effect level. LC: Lethal concentration.<br>LD: Lethal dose.<br>NOEC: No observed effect concentration.<br>NOEL: No observed effect level. |
| Text of Hazard Statements in Section 3 | Met. Corr. 1: H290 - May be corrosive to metals.<br>Acute Tox. 4: H302 - Harmful if swallowed.<br>Acute Tox. 5: H313 - May be harmful in contact with skin.<br>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.<br>Eye Dam. 1: H318 - Causes serious eye damage.                                                                                |

## Further information

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|