

SAFETY DATA SHEET

PHOSPHORIC ACID 50%

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

LS209 - PHOSPHORIC ACID 50%

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

Cleaning Product

1.3 Details of the supplier of the data sheet

Beal UK Limited
Sterling Works
Texas Street
Leeds
West Yorkshire
LS27 0HG
United Kingdom
sales@beal.org.uk
www.beal.org.uk
Tel: 0113 253 8888

1.4 Emergency telephone number

Nearest anti-poison centre or Guy's Hospital Poisons Unit, LONDON SE14 SER. (00 44)(1 71) 6 35 91 91

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

- Skin Corrosion, category 1A

2.2 Label Elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Pictogram(s):



Signal Word (s):

- DANGER

Hazard Statement(s):

- H314 – Causes severe skin burns and eye damage.

Precautionary Statement(s):

- P102 – Keep out of reach of children.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301 + P330 + P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Supplemental Hazard Statement(s):

- None.

SAFETY DATA SHEET

PHOSPHORIC ACID 50%

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Composition:

Component	CAS	EINECS	CLP CLASS.	%
Orthophosphoric Acid	7664-38-2	231-633-2	Skin Corr. 1A: H314	50%

See Section 16 for the full text of the R-phrases declared above.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Notes to the physician:

- No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

In the event of exposure by inhalation:

- Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

In the event of splashes or contact with eyes:

- Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

In the event of splashes or contact with skin:

- Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

In the event of swallowing:

- Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- May cause severe eye injury. There may be irritation and redness. The eyes may water profusely.
- Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.
- Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance.

4.3 indication of any immediate medical attention and special treatment needed

- No Data Available.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

- Aqueous liquid: does not show any particular risk in case of fire.

5.3 Advice for firefighters

- No specific fire fighting procedure given.
- Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

SAFETY DATA SHEET

PHOSPHORIC ACID 50%

- Avoid any contact with the skin and eyes.
- If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For fire-fighters

- Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

- Do not allow to enter sewers/ surface or ground water.
- Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Use neutralizing 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.

SECTION 7. HANDLING AND STORAGE

- Requirements relating to storage premises apply to all facilities where the mixture is handled.
- Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

- Avoid direct contact with the substance.
- Always wash hands after handling.
- Remove and wash contaminated clothing before re-using.

Recommended equipment and procedures:

- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations
- Avoid skin and eye contact with this mixture.

Prohibited equipment and procedures:

- No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

- Store between 4°C and 25°C in a dry, well ventilated place.

Storage

- Keep the container tightly closed in a dry, well-ventilated place.
- Store away from metals.
- Do not store together with acids.

Packaging

- Always keep in packaging made of an identical material to the original

7.3. Specific end use(s)

- The identified uses for this product are detailed in Section 1.2.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

Component	List	Type	Value
Orthophosphoric Acid	UK WEL	STEL	1mg/m ³
Orthophosphoric Acid	UK WEL	TWA	2mg/m ³

8.2. Exposure controls

SAFETY DATA SHEET

PHOSPHORIC ACID 50%

Personal protection measures, such as personal protective equipment

- Eye / face protection

- Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.
- Ensure eye bath is to hand.

- Skin Protection:

- Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

- Hand protection

- Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

- Respiratory protection

- Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state:	Liquid
Colour	Clear, colourless.
Odour	Distinctive.
pH of the substance or preparation:	<1.0
Flash point interval:	not relevant.
Vapour pressure:	not relevant.
Relative Density:	1.31
Water solubility:	Miscible in all proportions

9.2. Other information

- No data available.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

- No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

- This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

- Reacts with various metals.
- Reacts with strong alkalis.

10.4. Conditions to avoid

- Active ingredient decomposes at elevated temperatures.

10.5. Incompatible materials

- Keep away from: Strong alkalis.

10.6. Hazardous decomposition products

- Oxides of: Phosphorous.

SAFETY DATA SHEET

PHOSPHORIC ACID 50%

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Mixture:

- No toxicological data available for the mixture.

Skin corrosion/skin irritation:

- Caustic effect on skin and mucous membranes.

Serious damage to eyes/eye irritation:

- Strong caustic effect.

Respiratory or skin sensitisation:

- Strong caustic effect.

Component Toxicology:

Component	Test	Type	Value
Orthophosphoric Acid	Acute Oral Toxicity	LD50, Rat-Male, Female	1530mg/kg

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Component Ecotoxicology:

Component	Test	Type	Value
Orthophosphoric Acid	Fish	96H LC50	>100mg/l
Orthophosphoric Acid	Daphnia	24H EC50	29mg/l
Orthophosphoric Acid	Algae	72H EC50	>100mg/l

12.2. Persistence and degradability

- No data available.

12.3. Bioaccumulative potential

- No data available.

12.4. Mobility in soil

- The product is miscible with water. May spread in water systems

12.5. Results of PBT and vPvB assessment

- No data available.

12.6. Other adverse effects

- No known significant effects or critical hazards

SECTION 13. DISPOSAL CONSIDERATIONS

- Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Waste:

- Must be disposed of in accordance with local and national regulations.

Soiled packaging:

- Dispose of as normal industrial waste. If empty containers are recycled or disposed of, the receiver must be informed about possible hazards. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SAFETY DATA SHEET

PHOSPHORIC ACID 50%

SECTION 14. TRANSPORT INFORMATION

14.1 UN Number

UN Number: 1805

14.2 UN proper shipping name

Shipping name: PHOSPHORIC ACID SOLUTION

14.3 Transport hazard class(es)

Transport class: 8

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Environmentally Hazardous: No

Marine Pollutant: No

SECTION 15. REGULATORY INFORMATION

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

- Particular provisions:

- No data available.

15.2. Chemical safety assessment

- No data available.

SECTION 16. OTHER INFORMATION

- Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
- It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
- The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.
- To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein
- Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

Full Text of abbreviated H Statements:

H314 – Causes severe skin burns and eye damage.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.