Safety Data Sheet

Revision: 3.06 Modified: 2019-11-15

1: Identification of substance / mixture

1. Product Identifier **Substance**

Product Name Phosphoric acid

Product Code 094524 **CAS Number** 7664-38-2

Other Names Orthophosphoric acid

IUPAC

MFCD Number MFCD00011340

EC/EINECS 231-633-2

REACH Number Index-No

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

Research and Development

3. Details of the supplier of the safety data sheet

Fluorochem Ltd

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Hadfield Derbyshire

Telephone: SK13 1QH Fax: UK Email:

fluorochem

+44(0)1457 860111

+44(0)1457 892799

sds@fluorochem.co.uk

4. Emergency telephone number

+44(0)7855 268577 -

2. Hazards Identification

1. Classification of the substance or mixture

H314 Skin Corr. 1B

2. Label elements

Signal Word **Danger**



Hazard Statements

H314	Causes severe skin burns and eye damage.	
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Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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.
P310	Immediately call a POISON CENTER or doctor/physician.
P501	Dispose of contents/container to local regulations

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

- Todo Carlo					
Product Name		Hazards	Concentration		
Phosphoric acid					
	CAS Number: 7664-38-2 EC/EINECS: 231-633-2		<=100%		

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4. First Aid Measures

1. Description of first aid measures

Skin Contact P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

Eye Contact P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Ingestion P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Inhalation P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2. Most important symptoms and effects

Severe burns may occur.

3. Indication of any immediate medical attention

P310: Immediately call a POISON CENTER or doctor/physician.

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Carbon dioxide.

Dry chemical powder.

sand

Unsuitable Do not use water.

2. Special Hazards arising from the substance or mixture

Corrosive.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Mix with sand or vermiculite.

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

No Special Measures Required

7. Handling and Storage

1. Personal Precautions

Safe Handling Ensure there is sufficient ventilation of the area.

Wash hands immediately after contamination. P264: Wash hands thoroughly after handling.

Protection against explosions and fires

P363: Wash contaminated clothing before reuse.

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2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.

Keep container tightly closed. Avoid contact with water or humidity.

Storage Controls No special requirements

Maintaining Integrity Store away from oxidising agents

Keep in tightly closed container in cool area away from direct sunlight or heat sources.

Other advice no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Engineering measures

Ensure there is sufficient ventilation of the area.

Eye / Face Protection

Safety Glasses with side-shields.

Hand protection

Appropriate impermeable gloves.

Respiratory protection

P260: Do not breathe dust/fume/gas/mist/vapours/spray. Use breathing protection with high concentrations

Skin protection

Handle with appropriate gloves. Gloves must be inspected prior to use.

Use proper glove removal technique to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practice.

Wash and dry hands. Protective clothing.

Other personal protection

advice

no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Liquid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	-40°C
Initial boiling point and boiling range	158°C
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	1.685
Solubility(ies):	Water: Miscible

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Partition coefficient: n-octanol/water	No Data Available	
Auto-ignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidising properties	No Data Available	

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no unusual reactivity

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4. Conditions to Avoid

Moist Air.

5. Incompatible Materials

Oxidising agents.

Water.

Bases.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

11. Toxicology information

1. Information

Acute Toxicity no data

Skin corrosion/irritation strong corrosive effect on skin and mucous membranes

Serious eye strong corrosive effect.

Damage/irritation Causes serious eye damage

Respiratory or skin No sensitizing effect known

not known

not known

sensitisation

Carcinogenicity

Germ Cell mutagenicity

Reproductive toxicity not known

STOT-single exposure not known

STOT-repeated exposure not known

Aspiration hazard not known

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information

1. Toxicity

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not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

not known

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. **UN Number**: 1805

2. Shipping Name: PHOSPHORIC ACID, SOLUTION

3. Transport hazard class(es): : 8 Sub Class :



- 4. Packing group: III
- 5. Environmental hazards:
- 6. Special Precautions for user:
- 7. Transport in bulk:

Road (ADR)

1. UN Number: 1805

2. Shipping Name: PHOSPHORIC ACID, SOLUTION

3. Transport hazard class(es): : 8 Sub Class :



- 4. Packing group: III
- 5. Environmental hazards:
- 6. Special Precautions for user:
- 7. Transport in bulk:

Sea (IMDG)

1. UN Number: 1805

2. Shipping Name: PHOSPHORIC ACID, SOLUTION

3. Transport hazard class(es): : 8 Sub Class :

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4. Packing group: |||

5. Environmental hazards:

6. Special Precautions for user:

7. Transport in bulk: IBCINS: IBC03

TANKPROV: TP1

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

2. Associated risk phrases according to European directive 67/548/EEC

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.