Trafalgar Chemicals - Safety Data Sheet

2372-DH

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.0 Revision date: 18 June 2021 (Replaces revision 1.1 of 16 April 2021) Date printed: 18 September 2025

Section 1. Identification

1.1 Product Identifier 2372-DH

Product Name ORTHOPHOSPHORIC ACID 85% w/w pure 2.5L.

CAS Number 7664-38-2

REACH Registration No 01-2119485924-24-XXXX

Molecular Formula H, PO, =98.00

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Trafalgar Chemicals



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(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage.

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

2.2 Label elements

Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Signal word Danger

Hazard Pictograms





Hazard Statements Causes severe skin burns and eye damage. Harmful if swallowed.

Precautionary Statements

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

Section 3. Composition

3.1 Substances

Component	nt CAS No. EC No.		REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Orthophosphoric acid	7664-38-2	231-633-2	01-2119485924-24-XXXX	85%	Skin Corr. 1B,Acute Tox. 4 (O),Eye Dam. 1	

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In

severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If

breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION

URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position.

OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray, foam, dry powder or carbon dioxide.

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow

general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Keep non-neutralised material out of sewers,

storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if

major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash area down with copious

amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sunlight.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

	Component	omponent CAS No Concentration		Workplace Exposure Limits				
				Long Term	Long Term (8hr TWA)		Short Term 15min period)	
l	Orthophosphoric a	acid 7664-38-2	85%	-	1.0 mg/m-3	-	2.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use PVC gauntlets.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear colourless to pale yellow liquid.

Odour Odourless.
pH Not applicable
Boiling Point 158°C
Melting Point 21°C

Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure 2.18mmHg @ 20°C

Relative Density 1.6900

Water Solubility Completely soluble in water.

9.2 Other information

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid No specific conditions.

10.5 Incompatible materials Alkalis. Reacts with most metals to produce extremely flammable hydrogen gas. Reacts with

sulphide, phosphide, cyanide, carbide and silicides producing very toxic gases.

10.6 Hazardous Decomposition May produce hazardous fumes if involved in a fire. May liberate phosphorous oxide.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid is be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe

irritation and corneal scarring to permanent blindness.

Skin The liquid will cause burns. Repeated exposure may cause dermatitis.

LD50 Skin 2750mg/kg Rabbit

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Moderately toxic

by ingestion.

LD50 Oral 301mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes,

nose, throat and respiratory tract. High concentrations of vapour will seriously damage the membranes lining the

nose, throat and upper respiratory tract.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information 1ppm of phosphoric acid mist is irritating.

Section 12. Ecological

12.1 Toxicity Acidic, nutrient for undesirable algae. While acidity may be reduced by natural water hardness, the phosphate

may persist indefinitely.

LC50 Algal Not available

LC50 Crustacea >100mg/l Rabbit (48 hours)

LC50 Fish ~3mg/l Bluegill (Lepomis macrochirus) (96 hours)

12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator. Never dispose of into water courses or sewerage systems.

Contaminated Packaging Very carefully wash out containers with water.

Section 14. Transport Information

14.1 UN Number 1805

14.2 Proper Shipping Name Phosphoric acid, solution

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 80
Tunnel Restriction Code E

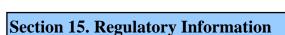
14.4 Packing Group III

14.6 Special precautions for

14.5 Environment hazards See section 12.

usei

14.7 Transport in bulk Not transported in bulk.



15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Classification Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral)

No special precautions required.

Signal word Danger

Hazard Pictograms





Hazard Statements H314, H302

Causes severe skin burns and eye damage. Harmful if swallowed.

Precautionary Statements P280, P264, P363, P301+P330+P331, P303+P361+P353, P305+P351+P338

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

CORROSIVE

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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