

HEALTH & SAFETY DATA SHEETS

Product Name: **ULTRACLEAN PH**
(ULTRASONIC CLEANING FLUID)

Composition / Information on Ingredients:

PHOSPHORIC ACID > 25%

Hazards Identification:

Severe eye, moderate skin and respiratory irritant. Corrosive to most metals liberating a flammable gas.

First Aid Measures:

Skin: Remove any contaminated clothing. Wash the affected area thoroughly with copious amounts of water. If a large area of skin is damaged seek medical attention.

Eye: Wash eyes with flowing water for ten minutes gently prising open eyelids to ensure efficient washing. A doctor should see all eye injuries from chemicals.

Ingestion: Do **NOT** induce vomiting except in the presence of, or on the order of a doctor. Seek medical help and take the data sheet. If chemical is confined to the mouth then wash out mouth and do not allow patient to swallow mouthwash. If patient is conscious then give water to drink to dilute the chemical in the stomach. If unconscious then put the patient in the recovery position. Obtain medical advice.

Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention.

Fire Fighting Measures:

Suitable Extinguishers: Water mist, foam, carbon dioxide and dry powder.

Hazardous Combustion Products: Oxides of Phosphorous

Special Equipment for Fire Fighting: Self contained breathing apparatus and full protective clothing.

Accidental Release Measures:

Safety Precautions: Wear appropriate PPE

Environmental Precautions: Prevent large quantities entering drains, sewers or watercourses.

Clean up Procedure: Contain with sand or earth, recover large spills for re-use or salvage, slowly neutralise residue with Sodium Bicarbonate or soda ash / lime. Shovel residues into suitable plastic container and hold for waste disposal.

Handling and Storage:

Handling: Good general ventilation. LEV may be required if using heated product.

Recommended Procedures: Avoid generating mist. A stock of neutralising chemicals should be available to help deal with small spillages.

Storage: Temperature range 28 – 50°C

Storage Media: 316 stainless steel, rubber lined mild steel, some plastics.

Physical and Technical Safety Data:

Appearance: Colourless to pale straw liquid.

Boiling Point: > 123°C

Melting Point range: -58 to +28°C dependant on grade

Solubility in water: Miscible with water.

Solubility in solvent: Miscible with lower alcohols. Immiscible with hydrocarbons and halogenated hydrocarbons.

Flammability: Does not burn.

Relative density: > 1.4 g/ml @ 25 °C

pH: < 2 @ 10g/l solution

Exposure Controls / Personal Protection:

Exposure Limits: 2mg/m³ STEL **Type:** OES

Monitoring Method: As Orthophosphoric Acid.

Protective Measures: PVC gloves. Safety goggles or face shield. PVC overalls, boots head protection.

Respiratory: Type approved RPE for acidic mists if required.

Hygiene Measures: Always wash thoroughly after handling chemicals.

Stability and Reactivity:

Stability: Converts at elevated temperatures (> 150°C) to pyrophosphoric acid and eventually (> 300°C) to metaphosphoric acid. Phosphorous pentoxide fume may also be released.

Known Hazardous reactions: Reactions with metals liberates flammable hydrogen gas. Reactions with bases are exothermic. Reactions with bases exothermic. Reacts with sulphides, phosphides, cyanides, acetylides, fluorides, silicides and carbides to produce flammable or toxic gases.

Toxicological Information:

Effects: Acid and some salts of suitable purity are permitted food additives. Due to acid nature, will cause burns to exposed tissue.

Ecological Information:

Environmental Effects: High concentrations in receiving waters will damage aquatic life due to the effects of low pH. LC₅₀ for fish, 96 h between 100 and 1000 ppm. Low concentrations may act as plant nutrient or precipitate heavy metals.

Disposal Considerations:

Substance: Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Regulatory Information:

Label Name: Phosphoric Acid 25%

Symbols: Corrosive

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

S36 – Wear suitable protective clothing.

R36-38 – Irritating for eyes & skin.

Other: This product only contains substances that are on the European Inventory of Existing Chemical Substances (EINECS).

Note:

The purpose of the above information is to describe the products only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as a specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.
