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**5. Fire Fighting measures.**

**Suitable Extinguishers** Use extinguisher suitable to cause of fire.

**Hazardous Combustion Products** Oxides of Phosphorous.

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

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**6. Accidental Release measures.**

**Safety Precautions** Wear appropriate PPE - See section 8

**Environmental Precautions** Prevent large quantities entering drains, sewers or water courses.

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

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**7. Handling & Storage.**

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

**Recommended procedures & equipment** Avoid generating mist.

**Storage** **Temperature range** Ambient

**Keep away from** See section 10

**Suitable storage Media** 316 stainless steel; rubber lined mild steel; some plastics.

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**8. Exposure Controls/personal protection.**

**Exposure Limits** 1mg/m<sup>3</sup>, 8h TWA; 3mg/m<sup>3</sup> STEL **Type** OES

**Monitoring Method**Protective Measures

**Respiratory:** Type approved RPE for acidic mists if required.

**Hand:** PVC gloves.

**Eye:** Safety goggles or face shield.

**Skin:** Overalls, boots, head protection.

**Hygiene Measures** Always wash thoroughly after handling chemicals.

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**9. Physical & Chemical Properties.**

<b>Appearance</b>	Colourless to pale straw liquid.
<b>pH</b>	<2 @ 10g/l solution.
<b>Boiling Point/range</b>	>100°C
<b>Flammability</b>	Aqueous solution, does not burn.
<b>Relative density</b>	< 1.05 g/ml @ 25°C
<b>Solubility in water</b>	Miscible with water.
<b>Solubility in solvent</b>	Miscible with lower alcohols. Immiscible with hydrocarbons and halogenated hydrocarbons.

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**10. Stability & 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 may liberate flammable hydrogen gas. Reactions with bases are exothermic. Reacts with sulphides, phosphides, cyanides, acetylides, fluorides, silicides and carbides to produce flammable or toxic gases.

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**11. Toxicological Information.****Effects**

Based on information on concentrated material:

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

**LD<sub>50</sub>** 1530 mg/Kg **Oral-rat**      2740 mg/Kg **skin-rabbit**

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**12. Ecological Information.**

**Environmental Effects** Based on information on concentrated material:

High concentrations in receiving waters will damage aquatic life due to the effects of low pH. LC<sub>50</sub> for fish, 96 h between 100 and 1000 ppm. Low concentrations may act as plant nutrient or precipitate heavy metals.

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NAME: Phosphoric Acid <10%

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13. Disposal considerations.

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

**Container** As substance.

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14. Transport Information.

<b>UN number</b>	1805	<b>Class/Item No.</b>	8, 11°C
<b>Primary Hazard</b>	Corrosive		
<b>Packing Group</b>	III	<b>Emergency Action Code</b>	2 R
<b>H.I. Number</b>	80		

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15. Regulatory Information.

**Supply label details** Ref. CHIP 2

**Label Name** Phosphoric Acid ...%

**Symbol** }

**Risk phrases** } No risk or safety phrases stipulated.

**Safety phrases** }

**E.C. No** 231-633-2

**Use of this material may be governed by the following regulations:-**

**Users are advised to consult these regulations for further information.**

The information contained in this data sheet does not constitute an assessment of workplace risks.

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16. Other Information.

**This material is usually used for:**

Manufacture of Fertilizers; Soft Drinks; Animal Feeds; Metal treatments; Fermentation processes.

**It must not be used for:**

Further details may be available upon request from your local Univar Ltd distribution site.

**Legal Disclaimer:**

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

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**Revision No** 1 **Dated** April 2003  
**Replaces S.D.S.** **Dated** October 1995

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