

## PRODUCT SPECIFICATION: PHOSPHORIC ACID 65%- 85%

Page | 1 of 3 ( Revision 3) Date of Issue September 2013 Next Revision September 2015

### Section 1 – GENERAL

**Product Name:**

Thermal Phosphoric Acid Chemically Pure (concentrations from 65% to 85% available on request) chemical formula  $H_3PO_4$

**Description:**

Clear and odourless liquid

**Properties:**

Density at 20 °C 65% 1.45 g/cm<sup>3</sup>

Density at 20 °C 75% 1.57 g/cm<sup>3</sup>

Density at 20 °C 80% 1.63 g/cm<sup>3</sup>

Density at 20 °C 85% 1.68 g/cm<sup>3</sup>

Melting Point 65% -73 °C

Melting Point 75% -20 °C

Melting Point 80% 3 °C

Melting Point 85% 21 °C

Boiling Point 65% 120 °C

Boiling Point 75% 135 °C

Boiling Point 80% 145 °C

Boiling Point 85% 158 °C

**Toxicity:**

Irritant effect on the skin. Irritant effect on eyes. Corrosive.

Acute oral toxicity LD50 : 1530 mg/kg

Species rat

Source SAX/ Lewis

Remove soiled or soaked clothing immediately.

Skin or eye contact with Phosphoric Acid can cause severe burns.

In case of contact with skin wash off immediately with soap and water.

Cover wounds with sterile dressing. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion

When swallowed, drink water.

Summon a doctor immediately.

Drink aluminium oxide suspension.

Treatment: treat symptomatically..

**Special Precautions:**

Suitable extinguishing media : Water spray, fog or alcohol foam.

Emergency equipment including a self-contained

**DIRECTOR: Stephen Louw**

**E-mail:** Stephen@chemmin.co.za leigh-ann@chemmin.co.za info@chemmin.co.za [www.chemmin.co.za](http://www.chemmin.co.za)

**Mobile:** +27 (0) 82 418 8076 **Fax:** +27 (0) 16 971 2725

**Postal Address:** PO Box 60845 Vaalpark South-Africa 1948

breathing apparatus must be worn.

The product under full combustion will form oxides of phosphorus.

**Statutory Aspects:**

UN 1805. Transported as Dangerous Goods. Material Safety Data Sheet. Occupational Health and Safety Act, No:85 OF 1995

**Section 2– SPECIFICATION**

**Specification  
Appearance**

**Typically**

- Arsenic**
- Iron**
- Chlorides**
- Copper**
- Fluorides**
- Heavy metals**
- Manganese**
- Mercury**
- Nickel**

Clear and odourless liquid	Clear and odourless liquid
3 ppm w/w maximum	Less than 2 ppm
20 ppm w/w maximum	Less than 15 ppm
20 ppm w/w maximum	Less than 10 ppm
5 ppm w/w maximum	Less than 1 ppm
10 ppm w/w maximum	Less than 3 ppm
10 ppm w/w maximum	Less than 1 ppm
0.6 ppm w/w maximum	Less than 0.4 ppm
0.05 ppm w/w maximum	Less than 0.05 ppm
5 ppm w/w maximum	Less than 2 ppm

