

PRODUCT SPECIFICATION: PHOSPHORIC ACID 75% FOOD GRADE

Section 1 – GENERAL									
Product Name:	Thermal Phosphoric Acid 75% Food Grade H ₃ PO ₄								
Description:	Clear and odourless liquid								
Properties:	<table border="0"> <tr> <td>P₂O₅ content</td> <td>54 – 54.7% w/w</td> </tr> <tr> <td>Specific Gravity at 20 °C</td> <td>1.573 – 1.585</td> </tr> <tr> <td>Total Acid</td> <td>75% +/- 0.5% w/w</td> </tr> <tr> <td>Crystallisation</td> <td>-20°C</td> </tr> </table>	P ₂ O ₅ content	54 – 54.7% w/w	Specific Gravity at 20 °C	1.573 – 1.585	Total Acid	75% +/- 0.5% w/w	Crystallisation	-20°C
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Total Acid	75% +/- 0.5% w/w								
Crystallisation	-20°C								
Toxicity:	<p>Irritant effect on the skin. Irritant effect on eyes. Corrosive.</p> <p>Acute oral toxicity LD50 : 1530 mg/kg Species rat Source SAX/ Lewis</p>								
	<p>Remove soiled or soaked clothing immediately. Skin or eye contact with Phosphoric Acid can cause severe burns.</p> <p>In case of contact with skin wash off immediately with soap and water.</p> <p>Cover wounds with sterile dressing. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.</p> <p>Ingestion When swallowed, drink water. Summon a doctor immediately. Drink aluminium oxide suspension. Treatment: treat symptomatically.</p>								
Special Precautions:	<p>Suitable extinguishing media : Water spray, fog or alcohol foam.</p> <p>Emergency equipment including a self-contained breathing apparatus must be worn.</p> <p>The product under full combustion will form oxides of phosphorus.</p>								
Statutory Aspects:	<p>UN 1805. Transported as Dangerous Goods. Chemical Initiatives (Pty) Ltd: Material Safety Data Sheet. Occupational Health and Safety Act, No:85 OF 1995</p>								

Section 2 – SPECIFICATION

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	Specification	Typically
Appearance	Clear and odourless liquid	Clear and odourless liquid
Arsenic	3 ppm w/w maximum	Less than 2 ppm
Iron	20 ppm w/w maximum	Less than 15 ppm
Chlorides	20ppm w/w maximum	Less than 10 ppm
Copper	5 ppm w/w maximum	Less than 1 ppm
Fluorides	10 ppm w/w maximum	Less than 3 ppm
Heavy metals	10 ppm w/w maximum	Less than 1 ppm
Manganese	0.6 ppm w/w maximum	Less than 0.4 ppm
Mercury	0.05 ppm w/w maximum	Less than 0.05 ppm
Nickel	5 ppm w/w maximum	Less than 2 ppm
Nitrates	Pass test	Pass test
Sulphates	100 ppm w/w maximum	Less than 50 ppm
Sulphides	0.1 ppm w/w maximum not detected by odour	

Section 3 – TESTING XXX (CHECK)

The material is sampled and tested according to the most recent editions of the Laboratory Test Methods Procedure. The sample is tested to the most recent edition of the method specified.

This product is manufactured and tested at:
Chamdor and other traded acid facilities.

Section 4 – PACKING

Bulk road tanker, 1000 litre flow bins, 210 litre HDPE blopacks and 25 litre HDPE polycans

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Section 5 – DOCUMENTATION

This specification is based on: Information from the Chamdor Factory.

Section 6 – USES

Food grade phosphoric acid

Section 7 – REASON FOR REVISION

September 2013 – New template