

PRODUCT SPECIFICATION: POLYPHOSPHORIC ACID 116% EXPORT

Section 1 – GENERAL							
Product Name:	Thermal Polyphosphoric Acid 116% $H_{(n+2)}P_nO_{(3n+1)}$						
Description:	Clear and odourless liquid						
Properties:	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">P₂O₅ content</td> <td style="text-align: right;">83.7 – 84.4 % w/w</td> </tr> <tr> <td>Specific Gravity at 50 °C</td> <td style="text-align: right;">2.048 – 2.051</td> </tr> <tr> <td>Total Acid as H₃PO₄</td> <td style="text-align: right;">116% +/- 0.5%</td> </tr> </table>	P ₂ O ₅ content	83.7 – 84.4 % w/w	Specific Gravity at 50 °C	2.048 – 2.051	Total Acid as H ₃ PO ₄	116% +/- 0.5%
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Specific Gravity at 50 °C	2.048 – 2.051						
Total Acid as H ₃ PO ₄	116% +/- 0.5%						
Toxicity:	Non-sensitising toxicological data not available. according to experience, product is considered to be harmless to health if used in the correct manner.						
	General protective measures: avoid contact with the skin. Hygiene measures: clean skin thoroughly after working with the product. Hand protection- rubber gloves, eye protection – tight fitting safety glasses, body protection – acid proof protective clothing.						
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:	UN 3264. Transported as Dangerous Goods. Chemical Initiatives (Pty) Ltd: Material Safety Data Sheet. Occupational Health and Safety Act, No:85 OF 1995						

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Section 2 SPECIFICATION

	Specification
Appearance	Clear and odourless liquid
Arsenic	50 ppm w/w maximum
Iron	10 ppm w/w maximum
Heavy metals	2 ppm w/w maximum
Fluorides	10 ppm w/w maximum
Residual Oxidant	20 ppm w/w maximum

Section 3 – TESTING

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 containers, 40kg, 300 kg and 335kg HDPE drums

Section 5 – DOCUMENTATION

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

Section 6 – USES

Catalyst manufacture, pharmaceutical synthesis, ortho phosphoric acid manufacture and polyphosphoric acid ester manufacture.

Section 7 – REASON FOR REVISION

September 2013 – New template



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