

PRODUCT SPECIFICATION: PHOSPHORIC ACID 80% TECHNICAL GRADE

Section 1 – GENERAL	
Product Name:	Thermal Phosphoric Acid 80% Technical Grade H ₃ PO ₄
Description:	Clear and odourless liquid
Properties:	Specific Gravity at 20 ⁰ C 1.629 – 1.640 P ₂ O ₅ content 57.6 - 58.3 % w/w Total Acid 80% +/- 0.5% w/w Crystallisation 3 ⁰ C Boiling point 145 ⁰ C Viscosity (Kinematic 25 ⁰ C) 0.206 cm ² /s
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:	Suitable extinguishing media : Water spray, fog or alcohol foam. Emergency equipment including a self-contained breathing apparatus must be worn. The product under full combustion will form oxides of phosphorus.
Statutory Aspects:	UN 1805. 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	10 ppm w/w maximum
Iron	50 ppm w/w maximum
Heavy metals	20 ppm w/w maximum
Fluorides	30 ppm w/w maximum
Sulphates	200 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 road tanker, 40 kg polycans, 1600kg IBC'S

Section 5 – DOCUMENTATION

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

Section 6 – USES

Industrial Grade Phosphoric Acid

Section 7 – REASON FOR REVISION

September 2013 – New template



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