

**MATERIAL SAFETY DATA SHEET
POLYPHOSPHORIC ACID**

Section 1 – Identification of Supplier

Product identifier:

Product Name: Polyphosphoric Acid

Shipping Name: Corrosive Liquid, Inorganic, N.O.S

Suppliers Details: Chemical Initiatives (Pty) Ltd

Address: AECI Place, Building 24, The Woodlands, Woodlands Drive, Woodmead, 2191, South Africa

Telephone number

+27 11 8068700

Emergency number

+27 11 7627767

Section 2 – Hazard identification

Component

Poly Phosphoric Acid

Label elements



Warning:

Poly phosphoric acid is corrosive

Precautions statement:

Wear gloves, face protection and protective clothing.

Other Hazards:

Hazardous in the case of skin contact, eye contact (irritant), ingestion and inhalation.

Section 3 – Composition / information on ingredients

Chemical characterization: **Poly Phosphoric Acid**

CAS number : 8017-16-1

UN number : 3264

EINECS number : 232-417-0

Hazardous ingredients

Phosphoric Acid

Concentration : 115 to 117%

CAS number : 8017-16-1

Hazardous symbols : C

R phrases : 34

Section 4 – First aid measures

Health Statements:

General Information

Remove soiled or soaked clothing immediately.

Skin Contact

In case of contact with skin wash off immediately with soap and water
Cover wounds with sterile dressing after contact.

Eye Contact

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: If swallowed, flush stomach

Section 5 – Fire Fighting Measures

Suitable extinguishing media : Carbon dioxide/ dry powder/ foam.

Extinguishing media that must not be used for safety reasons : water.

Section 6 – Accidental Release Measures

Methods for cleaning up/taking up

Pick up with absorbent material (e.g. sand, sawdust).

Rinse away the rest with water.

Pick up with suitable equipment and if necessary collect in closed container.

Dispose of contaminated material as prescribed.

Section 7 – Handling and Storage

Handling

Advice on protection against fire and explosion.

No special measures are necessary.

Storage

Requirements for storage rooms and vessels:

Store in original container or stainless steel vessels.

Storage stability

May be kept indefinitely if stored properly.

Do not leave vessels/container open.

Section 8 - Exposure Controls and Personal Protection

Personal Protective equipment

General protective measures : Avoid contact with eyes and skin.

Hygiene measures : Clean skin thoroughly after working with the product. Apply skin cream.

Hand protection : Rubber gloves.

Eye protection : Tightly fitting safety glasses.

Body protection	: Acid-proof protective clothing
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Section 9 – Physical and Chemical Properties

Appearance:	Form : Liquid Colour : Colourless Odour : Odourless
Data relevant to safety	
Melting point	Not applicable
Boiling point	550°C
Flash point	Not applicable
pH value (at 20°C, 1 g/l)	Approximately 1
Ignition Temperature	Not applicable
Self-ignition temperature	Not applicable
Explosion limits	Not applicable
Density at 20°C	2.02 to 2.06 g/cm ³
Bulk density	Not applicable
Vapour pressure	<1 mbar at 20°C
Impact sensitivity	Not impact sensitive
Solubility in water	Miscible in all proportions at 20°C
Combustion number	BZ1 Does not catch fire

Section 10 – Stability and Reactivity

Thermal decomposition : Not applicable

Hazardous reactions : Addition of water leads to increase in temperature

Section 11 – Toxicological Information

Sensitization : Non-sensitizing.

Remarks : Toxicological data not available.
Causes burns.
According to experience, the product is considered to be harmless to health if used in the correct manner.

Section 12 – Ecological Information

Physico-chemical eliminability >80%

Fish toxicity : LC50 approximately 100 mg/l

Remarks : May contribute to eutrophication in static waters, therefore it should not be released into surface waters.
May be eliminated from water by chemical flocculation.

Section 13 – Disposal Considerations

Product : For recycling contact manufacturer.
If discharge is forbidden by water by-laws, dispose of as waste product.

Uncleaned packaging : Uncontaminated packaging may be taken for recycling.

Section 14 - Transport			
	Land	Air	Sea
UN:	3264	3264	3264
Proper Shipping name:	Polyphosphoric Acid	Polyphosphoric Acid	Polyphosphoric Acid
Transport Hazard:	8	8	8
Packing Group:	III	III	III
Subsidiary Risk:	None	None	None
Exempt quantity	200 L	-	-
ERG:	154	154	154
Marine Pollutant:	No	No	No
Special Provisions: SANS 10228: 2010 Section 242	<p>The provisions of 5.3.4 concerning the supervision of vehicles shall apply when the total mass of these substances in the vehicle exceed 5000 kg.</p> <p>A substance is considered non - dangerous for transport if its chemical or physical properties are such that when the substance is tested, it does not comply with the established criteria for a class or division listed in B2 and annex C.</p> <p>The proper shipping name shall be supplemented with the technical name for purposes of documentation and packaging marking.</p>		
Transport in bulk SANS 1031:2010	None		

Hazchem Label

Corrosive Liquid



Users should ensure that they comply with relevant local, state or national legislation

Section 15 – Regulatory Information

Hazard warning labelling compulsory

Hazard symbols

C : Corrosive

Causes burns

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Keep locked up and out of reach of children.

Section 16 – Other Information

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability of a particular application.