

Profert (Pty) Ltd

Material Safety Data Sheet (MSDS)

1. Product and Com	pany identification	
Identification of the subst Product name Material uses Synonyms	ance or preparation - Phosphoric acid (Liquid) - Fertilizer - Orthophosphoric acid - Profos 23P	Serial Number : P011 Date issued : Jan 2012 Pages : 4
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2.	Composition	/ Information on	inaredients

Composition Molecular formula Appearance	 52/53% Phosphorous pent oxide (P₂O₅), Phosphorous 23% P. H₃PO₄ Pale straw colour, viscous liquid, slight sediment.
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3. Hazards identification	
Corrosive Effects and symptoms	 Contact with liquid causes severe damage to skin and eyes. Causes burns to skin, eyes and gastrointestinal tract. Mist irritant to the respiratory tract. Fluid build-up on the lung (Pulmonary oedema) may occur up to 48 hours after exposure and could prove fatal.

4. First Aid measures

Specific immediate treatment Inhalation	 Remove patient from exposure, keep warm and at rest. Obtain medical attention. Do not use mouth-to-mouth, if victim has inhaled or ingested the substance. Apply artificial respiration if breathing has ceased or shows signs of failing. Use a pocket mask with a one-way valve.
Ingestion	 DO NOT induce vomiting. Never give anything by mouth to an unconscious person. If not unconscious wash out mouth with water and give a cup of water to drink. Get medical attention if symptoms appear.
Skin contact	 In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Remove contaminated clothing and shoes. Keep warm and guiet. Get medical attention if symptoms appear.
Eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Hold eyelids open while washing. Check for and remove any contact lenses. Get medical attention if symptoms appear.
Further professional medical assistance	- Symptomatic treatment and supportive therapy as indicated. Administer oxygen if necessary. Cold wet compresses should be applied to the affected areas to relieve pain. Following severe exposure the patient should be kept under medical review for at least 48 hours as delayed Pulmonary oedema may develop.

5. Fire-fighting measures

6. Accidental release measures

Personal precautions On site precautions	 As a minimum use gloves and eye/face protection. Isolate hazard area. Stop leak if possible without risk. Remove sources of heat and flame. Notify occupational and environmental Authorities. Keep unauthorized
Environmental precautions and	 and unprotected personnel from entering the area. Prevent entry into waterways, sewers, basements or confined areas.
clean-up methods	Stop leak if possible without risk.
	Keep portable emergency pump available on site.
Spill kit	- Drizit (An oil absorbent) to be kept on site.
Small spillages	 Neutralize by adding alkaline material (Soda ash, Lime) with extreme care. Absorb with an inert material (e.g., vermiculite, dry sand, earth). Do not use combustible materials, such as saw dust.
	Pump or shovel into well labelled containers for disposal. Wash spillage area with large amounts of water.
Large spillages	- Recover if practicable. Dam or dyke large spillages.
	Pump or shovel into well labelled containers for disposal.
	If not practicable, neutralize by adding alkaline material (Soda ash,
	Lime) with extreme care. Wash spillage area with large amounts of
	water.
Note: See section 8 for personal	protective equipment and section 13 for waste disposal.

7. Handling and Storage	
Handling Storage	 Avoid contact with eyes / skin and do not breathe mist / vapour. Keep in original container if possible, away from strong bases and
Packaging materials	metals. Keep containers indoors and tightly closed (Crystallisation may occur in cold weather).Use original container.

8. Exposure Controls / Personal Protection

Skin and body protection

Full length chemical resistant overalls / apron, exhaust ventilation and the use of barrier cream are recommended. Gloves (Impervious)

Goggles and dust masks are required if fume levels are above the OEL.

Hand protection Eye protection





9. Physical and chemical properties

Appearance Boiling Point Freezing Point Specific Gravity (SG) Vapour Pressure Viscosity Solubility	 Colourless clear syrupy liquid. 171 ℃ 28 ℃ 1.68 0,023 mm Hg at 20 ℃ < 2 mPa.s (in 10 g/litre solution) at 25 ℃ Miscible with water, Other - miscible with ethanol
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10. Stability and Reactivity

Hazardous reaction	 May react violently if in contact with bases and with metals forming Hydrogen.
Hazardous decomposition products	- Produces a potential explosive when mixed with Nitro methane.

11. Toxicological information

Eye contact	 May cause permanent damage if eye is not immediately irrigated. Painful burning, redness or blurred vision.
Skin contact	- May cause severe burns. Painful burns and redness.
Inhalation	- May cause corrosion, pain, vomiting, burns to the mouth and throat and
	perforation of the Oesophagus. Inhalation of the fumes may cause fluid
	build-up on the lung (Pulmonary oedema) may occur up to 24 hours after
	exposure and could prove fatal.
Ingestion	- Will cause corrosion of and damage to the gastrointestinal tract. Sore
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	throat, stomach pain, nausea.
Long term exposure	- The severity of acute effects is such that repeated or prolonged
	exposure is unlikely.

12. Ecological information

Users should ensure that they comply with local, provincial and national environmental legislation. Environmental affects, - Toxic to aquatic organism. behaviour and fate

13. Disposal considerations

14. Transport information

Hazchem Code	- 2R	
UN number	- 1805	
Group	- 111	
Class	- 8	
ERG number	- 154	
EAC	- 60	

15. Regulatory information

EEC Hazard Classification Risk and Safety phrases	
S 26	 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 34 Users should ensure that	- Causes burns they comply with any relevant local, provincial and national legislation.

16. Other information

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product and in particular how to safely handle, use, store and transport the product. Since Profert (Pty) Ltd cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product and beyond, and communicate such information to all relevant parties.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. Profert (Pty) Ltd emphasizes safe use of all materials, promotes sustainable practices and encourages preservation of the environment.