

Material Safety Data Sheet

Phosphorus - Inorganic

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Phosphorus - Inorganic

Catalog Numbers: 294 001, 294 002, 294 003

Use: Spectrum Diagnostics phosphorus reagent is intended for the in- vitro quantitative, diagnostic determination of phosphorus in human serum, plasma or urine on both automated and manual systems.

Contact Point

Egypt

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2. HAZARD IDENTIFICATION

Classified as hazardous according to the EU criteria

Hazard Category: Corrosive.

Hazard Classification: HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS.

RISK PHRASES

R35 causes severe burns.

R41 Risk of serious damage of eyes.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek a medical advice.

S28 after contact with skin, wash immediately with plenty of soap and water.

Poison Schedule: (CH):2.

Warning Statement:

Eye contact will lead to injury; prolonged exposure to skin may cause severe irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
Reagent 1 (R1)		
Ammonium molybdate	3.5 mmol/L	12054-85-2
Sulphuric acid	750 mmol/L	7664-93-9

All other ingredients determined not to be hazardous according to the EU criteria

4.FIRST AID MEASURES

Swallowed:

If swallowed, **DO NOT** induce vomiting. If conscious, give 1 to 2 glasses of water to drink. Seek immediate medical assistance.

Eye:

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open.

If irritation persists transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water.

If irritation persists transport to hospital or doctor.

Inhaled:

Move victim to fresh air. Apply resuscitation if victim is not breathing.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor: Treat symptomatically.

5.FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

If safe to do so, move undamaged containers from fire area.

Hazardous Decomposition Products: Decomposes on heating emitting minor quantities of noxious smoke.

Fire Fighting Procedures: Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.

Flammability: This material is not a flammable or combustible liquid.

6.ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Keep unnecessary people away; Isolate hazard area and deny entry. **Caution!** Material may be slippery when spilt.

Walk cautiously. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS.

Methods and Materials for Containment and Clean Up Procedures:

Bund area using diatomaceous earth or other inert absorbent material - to prevent run off into drains and waterways.

Throw further diatomaceous earth or other inert material onto spill and then shovel up and seal in properly labeled containers for disposal. Add dilute solution of soda ash onto remainder of spill contaminate to allow neutralization efflorescence (carbon dioxide) will be seen, when completed flush to drain with large quantities of water.

7.HANDLING AND STORAGE

Precautions for Safe Handling:

Prevent eye and skin contact. Provide adequate ventilation. Avoid generating Vapour.

Conditions for Safe Storage:

Keep containers tightly closed in a cool place and out of direct sunlight. Store away from strong acids and oxidizers.

Store at 2-8°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels. Store in original packages as approved by manufacturer.

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC) for this product or any of the components:

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate.

Personal Protection Equipment

GLOVES: If the skin is likely to be exposed to this product, then the use of nitrile or neoprene gloves are recommended.

EYES: Chemical goggles or safety spectacles with side shields to protect eyes.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid.
Solubility in water	Completely miscible

Other properties

pH	Not available
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10.STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes on heating emitting oxides of carbon, oxides of nitrogen and noxious smoke.

INCOMPATIBILITIES:

Strong alkalis and oxidizing agents.

CONDITIONS TO AVOID:

High temperatures and incompatibles.

11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product

ACUTE HEALTH EFFECTS

Swallowed:

May cause irritation to mouth, throat and stomach with effects including pains in the stomach, which may lead to nausea, vomiting and diarrhea.

Eye:

May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

Skin:

Will cause irritation to the skin, with effects including; Redness, itchiness, and swelling.

Inhaled:

Mists from the product may cause irritation to the nose, throat and respiratory system with effects including: Cough, discomfort, difficulty breathing and shortness of breath.

Chronic:

Prolonged or repeated contact with this substance will cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information for product.

Mobility: No information for product.

Persistence / Degradability: No information for product.

Chemical Fate Information: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

UN Number: None allocated.

Proper Shipping Name: None allocated.

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: None allocated.

Road and Rail Transport:

Not classified as a Dangerous Good according to the United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals.

Air Transport:

Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Marine Transport:

Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by s

15. OTHER INFORMATION

Principal References

Information supplied by manufacturer, reference sources including the public domain.

Disclaimer

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions which are available on request.

END OF MSDS