

4-Aminophenyl phosphate monosodium salt hydrate**Section 1 – Chemical Product and Company Identification***MSDS Name:* 4-aminophenyl phosphate monosodium salt hydrate*Catalog No.:* **RS-001-50***Chemical Name:* 4-aminophenyl phosphate monosodium salt hydrate*Synonym:**Application of the product:* Enzyme substrate*Company Identification:*

DiagnoSwiss S.A.

Rte de l'Île-au-Bois 2

c/o Cimo S.A. - Case Postale

CH - 1870 MONTHÉY

Switzerland

Tel.: +41 (0)24 471 49 00

Fax: +41 (0)24.471 49 01

For Emergencies Call:

Tel.: 145 (CH)

Tel.: +41 (0)24 471.49.00

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Section 2 – Composition, Information on Ingredients

CAS No.	Chemical Name	Percent	EINECS	Classification
[108084-47-5]	4-aminophenyl phosphate monosodium salt hydrate	100	Not available	Xn; R:20/22-50/53-68

The complete text of the R-Phrases will be found in Section 16.

Use of the substance/preparation 20 mL container*Use of the substance/preparation* This product is a 20-mL bottle containing 50 mg of 4-aminophenyl phosphate monosodium salt hydrate.**Section 3 – Hazards Identification****Emergency Overview**

Caution ! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated. Harmful if swallowed, inhaled or absorbed through skin. May cause eye and skin irritation. Material may cause irritation of mucous membranes and upper respiratory tract.

Target Organs: None known.

Potential Health Effects:

<i>Eye:</i>	May cause eye irritation.
<i>Skin:</i>	May cause skin irritation.
<i>Ingestion:</i>	May cause digestive tract irritation.
<i>Inhalation :</i>	May cause respiratory tract irritation.
<i>Chronic :</i>	Cancer suspect agent. Possible risk of irreversible effects.

Section 4 – First Aid Measures

<i>Eyes:</i>	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Call a physician.
<i>Skin:</i>	In case of contract, immediately flush skin with soap and copious amounts of water for at least 15 minutes.
<i>Ingestion:</i>	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
<i>Inhalation:</i>	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
<i>Notes to Physician:</i>	Treat symptomatically and supportively.

Section 5 – Firefighting Measures

<i>General Information:</i>	As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<i>Extinguishing Media:</i>	In case of fire use water spray, carbon dioxide, dry chemical powder or appropriate foam.
<i>Autoignition Temperature:</i>	Not available.
<i>Flash Point:</i>	Not available.
<i>NFPA Rating:</i>	Not published.
<i>Explosion Limits:</i>	Lower: Not available; Upper: Not available.

Section 6 – Accidental Release Measures

<i>General Information:</i>	Use proper personal protective equipment as indicated in Section 8.
<i>Spills/leaks:</i>	Sweep up, place in a bag and hold for waste disposal; avoid raising dust; ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

<i>Handling:</i>	Avoid ingestion and inhalation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
<i>Storage:</i>	Keep container tightly closed when not in use. Store in deep freeze (below -15°C). Store dry. Protect from light.

Section 8 – Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limit: Not available

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Hand: Wear compatible chemical-resistant gloves to prevent skin exposure.

Clothing: Wear appropriate clothing to prevent exposure.

Respirator: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 – Physical and Chemical Properties

Appearance: Light yellow to light brown microcrystalline powder.

Odor: No characteristic odor.

pH: Not available.

Boiling point: Does not apply.

Melting point: 174-178 °C (dec.).

Flash Point: Not available.

Autoignition Temperature: Not available.

Vapor Pressure: Does not apply.

Vapor Density: Does not apply.

Specific Gravity/Density: Not available.

Solubility in Water: Soluble in water.

Solubility Other: Not available.

Other Physical Data: Not available.

Molecular Formula: C₆H₇NO₄PNa

Molecular Weight: 211.09 g/mol.

Section 10 – Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Incompatible materials, light.

Incompatibilities: Strong oxidizing agents.

Hazardous Decomposition Products: Toxic fumes of: carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides.

Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

<i>RTECS:</i>	Not available.
<i>CAS No.:</i>	[108084-47-5]
<i>LD50/LC50:</i>	Not available.
<i>Carcinogeny:</i>	Cancer suspect agent.
<i>Epidemiology:</i>	Not available.
<i>Teratogen:</i>	Not available.
<i>Reproductive Effects:</i>	Not available.
<i>Neurotoxicity:</i>	Not available.
<i>Mutagen:</i>	Not available.
<i>Other Studies:</i>	Free p-aminophenol is reported to be possible carcinogen, see RTECS # SJ5075000.

Section 12 – Ecological Information

<i>Ecotoxicity:</i>	Not available.
<i>Environmental Fate:</i>	Not available.
<i>Physical/Chemical:</i>	Not available.
<i>Other:</i>	Not available.

Section 13 – Disposal Considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber; observe all federal, state and local environmental regulations.

Section 14 – Transport Information

IATA

<i>UN Number :</i>	
<i>Proper Shipping Name:</i>	Not regulated as a hazardous material. (IATA, RID/ADR).
<i>Class:</i>	
<i>Packing Group:</i>	

RID/ADR

<i>UN Number:</i>	
<i>Proper Shipping Name:</i>	Not regulated as a hazardous material. (IATA, RID/ADR).
<i>Class:</i>	
<i>Packing Group:</i>	

Section 15 – Regulatory Information

European/International Regulations

Hazard Symbols: Xn

R-Phrase No.: Risk Phrases

R20/22 Harmful by inhalation and if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68 Possible risk of irreversible effects.

S-Phrase No.: Safety Phrases

S28 After contact with skin, wash immediately with plenty of soap-suds.

S36/37 Wear suitable protective clothing and gloves.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

International Regulations

Not available.

Various

Exposure Limit: Not available.

Section 16 – Additional Information

Xn Harmful

N Environmental

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R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68 Possible risk of irreversible effects.

Notice to Reader:

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