



ABD Bioquest, Inc.
923 Thompson Place, Sunnyvale, CA 94085
Tel: 408-733-1055; Fax: 408-733-1304
E-Mail: info@abdbioquest.com
www.abdbioquest.com; www.bioconjugation.com

Material Safety Data Sheet (MSDS)

Revision Number: 1.0

Last updated December 2006

Product and Company Identification

Product Name: pNPP
[4-nitrophenyl phosphate, disodium salt]
Catalog Number: 11619 & 11620
Manufacturer/Supplier: ABD Bioquest, Inc.
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Sunnyvale, CA 94085
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Composition / Information on Ingredients

Molecular Formula: $C_6H_4NNa_2O_6P$
Molecular Weight: 263.05
CAS Number/Name: N/A

Hazards Identification

Emergency Overview: Avoid contact and inhalation. To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

Potential Health Effects

Inhalation:	Not determined
Ingestion:	Not determined
Skin:	Not determined
Eyes:	Not determined
Chronic Exposures:	Not determined
Target Organs:	Not determined

Potentially harmful. Avoid prolonged or repeated exposure. Wash thoroughly after handling. If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek medical advice. If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice. If inhaled, move individual to fresh air and call a physician to seek medical advice.



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Fire Fighting Measures

Extinguishing media:

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards:

Emits toxic fumes under fire conditions.

Accidental Release Measures

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

Handling and Storage

Desiccation recommended. Protect material from long-term exposure to light; may be exposed to light for short periods of time.

Exposure Controls / Personal Protection

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

ACGIH/OSHA Permissible Exposure Limit Data:

Not determined

Physical and Chemical Properties

<i>Form:</i>	Solid
<i>Odor:</i>	Not determined
<i>Solubility in Water:</i>	Low
<i>Specific Gravity:</i>	Not determined
<i>pH:</i>	Not determined
<i>Boiling Point:</i>	Not determined
<i>Melting Point:</i>	Not determined
<i>Flash Point:</i>	Not determined
<i>Vapor Pressure:</i>	Not determined

Stability and Reactivity

<i>Thermal Decomposition:</i>	No decomposition if used according to specifications.
<i>Dangerous Products of Decomposition:</i>	No dangerous decomposition products identified.
<i>Dangerous Reactions:</i>	No dangerous reactions identified.

Toxicological Information

<i>RTECS Number:</i>	None known
<i>Toxicity:</i>	We are not aware of any toxicity data for this product.
<i>Health Hazards:</i>	Not thoroughly investigated.
<i>Potential Hazards:</i>	The complete properties have not been investigated; however, similar compounds are known to be chemically reactive with proteins and other biochemicals and should be treated as potentially hazardous.



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Carcinogenicity:

Not listed by NTP, IARC or OSHA.

Ecological Information

Do not allow product to reach ground water, water course, or sewage system.

Disposal Considerations

Consult local, state or national regulations for proper disposal.

Transport Information

<i>Hazard Class:</i>	Not determined
<i>Identification Number:</i>	Not determined
<i>Packing Group:</i>	Not classified
<i>Proper Shipping Name (Technical Name):</i>	Not determined

Regulations

<i>US Toxic Substances Control Act (TSCA):</i>	Not listed
<i>US Other:</i>	Not applicable
<i>EEC EINICS Number:</i>	Not identified
<i>Other Country Regulations:</i>	None identified
<i>EEC Risk Statements:</i>	Not determined

Other Information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. ABD Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.