

**MATERIAL SAFETY DATA SHEET  
VIVANTIS TECHNOLOGIES SDN BHD**

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**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PC1002-5; PC1002-25g  
Product Name: Adenosine 5'-Diphosphate, Disodium salt (ADP.2Na)

Intended Use:  
For research use only. Not for use in diagnostic procedures.

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	EC No.
ADP	16178-48-6	240-314-7

Molecular formula:  $C_{10}H_{13}N_5Na_2O_{10}P_2 \cdot 2H_2O$

**SECTION 3: HAZARDS IDENTIFICATION**

**GHS Classification**

No information available.

**Irritant**

Irritating to eyes, respiratory system and skin.

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

Wear suitable protective clothing.

**SECTION 4: FIRST-AID MEASURES**

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of skin contact, wash off immediately with soap and plenty of water.

In case of ingestion, clean mouth with water and later drink plenty of water.

**SECTION 5: FIRE FIGHTING MEASURES**

Not flammable.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray, dry chemical powder, carbon dioxide or appropriate foam.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

Hazardous decomposition products formed under fire conditions: No information available.

Flash point: Not determined.

Explosion data – sensitivity to mechanical impact: No information available.

Explosion data – sensitivity to static discharge: No information available.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, avoid raising dust by storing material in appropriate container.  
For cleaning up, wash spill area with soap solution and flush spill area with copious amounts of water.

### SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Hygroscopic. Protect from moisture.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face protection	Wear chemical safety goggles.
Respiratory protection	Wear dust mask and do not breathe dust.
Skin and body protection	Wear protective gloves/clothing.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Powder
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	No information available
Melting point:	No information available
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	No information available
Flash point:	Not applicable
Autoignition temperature:	No data available
Decomposition temperature:	No information available
Upper Flammability limit in air:	No data available
Lower Flammability limit in air:	No data available
Explosive properties:	No information available
Oxidizing properties:	No information available
Solubility:	No information available
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No data available
Vapor density:	No data available

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Evaporation rate:	No data available
Specific gravity:	No data available
Viscosity:	No information available

## **SECTION 10: STABILITY AND REACTIVITY**

Stable under recommended storage conditions.

Materials to avoid:	No information available.
Hazardous decomposition products:	Toxic fumes and irritating fumes.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Moisture.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### Acute effects

May be harmful if inhaled, swallowed or if absorbed through the skin.

Causes eye and skin irritation.

Material is irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## **SECTION 12: ECOLOGICAL INFORMATION**

Data not yet available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Observe all federal, state and local environmental regulations.

## **SECTION 14: TRANSPORT INFORMATION**

Not regulated.

## **SECTION 15: REGULATORY INFORMATION**

### European information

R: 36/37/38                      Irritating to eyes, respiratory system and skin.

S: 36/37/39                      Wear suitable protective clothing, gloves and eye/face protection.

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## **U.S. information**

EINECS NO.: 240 314 7

Water pollution hazard rating: 1

## **SECTION 16: OTHER INFORMATION**

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