

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

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PC1003-5g; PC1003-25g
Product Name: Adenosine 5'-Triphosphate, Disodium salt (ATP.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.
ATP	987-65-5	213-579-1

Synonyms: Adenosine triphosphate disodium; ATP disodium; ATP disodium salt; Disodium adenosine; Adetphos; Disodium adenosine triphosphate; Disodium adenosine 5'-triphosphate; Disodium ATP; Disodium dihydrogen ATP; Sodium ATP

SECTION 3: HAZARDS IDENTIFICATION**GHS Classification**

No known hazards based on information supplied.

SECTION 4: FIRST-AID MEASURES

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

In case of skin contact, wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

In case of inhalation, move to fresh air. If not breathing, give artificial respiration.

In case of ingestion, never give anything by mouth to an unconscious person. Rinse mouth.

SECTION 5: FIRE FIGHTING MEASURES

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

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

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, ensure adequate ventilation, especially in confined areas. Wear respirator, chemical safety goggles, rubber boots and heavy rubber glove if necessary.

For cleaning up, avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site with soap solution after material pickup is complete.

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SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice.
Keep containers tightly closed in a dry and cool place.
Wash face and hands thoroughly after handling.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	Where exposure limits are exceeded, wear respiratory protection such as dust mask. Avoid inhalation, contact with eyes, skin and clothing when handling the product. Avoid prolonged or repeated exposure if possible.
Eye/face protection	Use chemical safety glasses. Avoid contact with eyes.
Hand protection	Wear compatible chemical-resistant gloves. Wash hands thoroughly after handling.
Skin and body protection	Impervious clothing. Wear protection gloves/clothing. Wash face and hands thoroughly after handling.

Use engineering measures such as showers, eyewash stations and mechanical exhaust systems.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Odor:	No information available

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	Strong oxidizing agents
Hazardous decomposition product:	Phosphorous oxides, phosphine, carbon dioxide, carbon monoxide, nitrogen oxides, sodium/sodium oxides
Hazardous polymerization:	Do not occur.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

This product may be harmful by inhalation, ingestion or skin absorption.

Irritation to eyes and skin may occur when in contact.

May be 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.

RTECS: AU7417000

Toxicity data

ORL-RAT LD50: >2 gm/kg

SCU-RAT LD50: >2 gm/kg

IVN-RAT LD50: 380 mg/kg

ORL-MUS LD50: >2 gm/kg

SCU-MUS LD50: >2 gm/kg

IVN-MUS LD50: 266 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose waste material in accordance with all federal, state and local environmental regulation.

For contaminated packing too dispose of as unused product in accordance with all federal, state and local environmental regulation.

Observe all federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Not regulated.

SECTION 15: REGULATORY INFORMATION

Not applicable.

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SECTION 16: OTHER INFORMATION

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