

# Safety Data Sheet

## ATP, Disodium Salt, Hydrate



### Section 1 Product Description

**Product Name:** ATP, Disodium Salt, Hydrate  
**Recommended Use:** Science education applications  
**Synonyms:** ATP, Disodium Salt, Adenosine Triphosphate Disodium, ATP  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

**Classification of the chemical in accordance with paragraph (d) of §1910.1200;**

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification:**

### Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Adenosine 5'-triphosphate, Disodium Salt, Hydrate	987-65-5	100

### Section 4 First Aid Measures

#### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Nitrogen containing gases, Phosphorus compounds

### Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Avoid contact with skin and eyes.  
Vacuum or sweep up material and place in a disposal container. Contain the discharged material. Do not allow the spilled product to enter public drainage system or open waterways.

### Section 7 Handling and Storage

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**Handling:** Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution.

**Storage:** Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
ATP, Disodium Salt	N/A	N/A	N/A	N/A

### Control Parameters

**Engineering Measures:** No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.

**Respirator Type(s):** Not normally required.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Natural rubber, Neoprene, PVC or equivalent.

## Section 9 Physical Data

<b>Formula:</b> C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> O <sub>13</sub> P <sub>3</sub> ·2Na	<b>Vapor Pressure:</b> No data available
<b>Molecular Weight:</b> 551.15	<b>Evaporation Rate (BuAc=1):</b> No data available
<b>Appearance:</b> White Crystalline Solid	<b>Vapor Density (Air=1):</b> No data available
<b>Odor:</b> No data available	<b>Specific Gravity:</b> No data available
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Soluble
<b>pH:</b> No data available	<b>Log Pow (calculated):</b> -6.44 (est)
<b>Melting Point:</b> 188 - 190 C	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> No data available	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Viscosity:</b> No data available
<b>Flammable Limits in Air:</b> No data available N/A	<b>Percent Volatile by Volume:</b> N/A

## Section 10 Reactivity Data

**Reactivity:** Not generally reactive under normal conditions.

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** No data available.

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition Products:** Phosphorus compounds, Nitrogen containing gases, Carbon dioxide, Carbon monoxide

**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Routes of Entry:** No data available

**Symptoms (Acute):** No data available

**Delayed Effects:** No data available

**Acute Toxicity:**  
Chemical Name

CAS Number

Oral LD50

Dermal LD50

Inhalation LC50

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Oral LD50 Rat >  
2000 mg/kg  
Oral LD50 Mouse  
> 2000 mg/kg

Not determined

Not determined

## Carcinogenicity:

### Chemical Name

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### CAS Number

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### IARC

Not listed

### NTP

Not listed

### OSHA

Not listed

## Chronic Effects:

### Mutagenicity:

No evidence of a mutagenic effect.

### Teratogenicity:

No evidence of a teratogenic effect (birth defect).

### Sensitization:

No evidence of a sensitization effect.

### Reproductive:

No evidence of negative reproductive effects.

### Target Organ Effects:

#### Acute:

No data available

#### Chronic:

No data available

## Section 12

## Ecological Data

### Overview:

This material is not expected to be harmful to the ecology.

### Mobility:

This material is expected to have very high mobility in soil. It does not absorb to most soil types.

### Persistence:

Dissolved into water, Biodegradation

### Bioaccumulation:

Bioconcentration is not expected to occur.

### Degradability:

Biodegrades very quickly.

### Other Adverse Effects:

No data

### Chemical Name

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### CAS Number

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### Eco Toxicity

Not available

## Section 13

## Disposal Information

### Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

### Waste Disposal Code(s):

Not Determined

## Section 14

## Transport Information

### Ground - DOT Proper Shipping Name:

Not regulated for transport by US DOT.

### Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

## Section 15

## Regulatory Information

### TSCA Status:

All components in this product are on the TSCA Inventory.

### Chemical Name

### CAS Number

### § 313 Name

### § 304 RQ

### CERCLA RQ

### § 302 TPQ

### CAA 112(2) TQ

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No

No

No

No

No

## Section 16

## Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

## Glossary

# Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health