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### **1. Identification**

Adenosine 5'-triphosphate, disodium salt hydrate

**Product Name** 

Synonyms

ATP, disodium salt hydrate

**Recommended Use** Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

### **Company**

XI'AN AOGU BIOTECH CO., LTD Room 606, Block B3, Jinye Times, No.32, East Section of Jinye Road, Yanta District, Xi'an Shaanxi 710065 China Tel: 0086-18091843361 Fax: 0086-29-89121514

## 2. Hazard(s) identification

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity - (repeated exposure) Category 2 Target Organs - Kidney, Central nervous system (CNS), Blood.

### Label Elements

Signal Word Warning

**Hazard Statements** May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention Do not get in eyes, on skin, or on clothing Response Get medical attention/advice if you feel unwell Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

## **3. Composition/Information on Ingredients**

Component	CAS No	Weight %	
Adenosine 5'-triphosphate, disodium salt hydrate	34369-07-8	98	

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.	
Inhalation	Remove from exposure, lie down. Remove to fresh air. Get medical attention.	
Ingestion	Do NOT induce vomiting. Get medical attention.	
Most important symptoms and effects	No information available.	
Notes to Physician	Treat symptomatically	

## 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

### Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Oxides of phosphorus.

### **Protective Equipment and Precautions for Firefighters**

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

<u>NFPA</u>	Health	Flammability	Instability	Physical hazards		
	nearn 1	1	0	N/A		
		6. Accidental relea	ise measures			
	Precautions ental Precautions	Ensure adequate ventilation. U See Section 12 for additional E		ent as required.		
Methods Up	for Containment and Clean	Sweep up and shovel into suita environment. Avoid dust forn	able containers for disposal. Do nation. Use spark-proof tools an			
		7. Handling an	d storage			
Handling		Wear personal protective equip contact with skin and eyes. Do immediate medical assistance.	not breathe dust. Do not inges			
Storage.		Keep in a dry place. Keep container tightly closed. Keep refrigerated. Incompatible Materials. Strong oxidizing agents.				
	8. Exposure controls / personal protection					
Exposure	<u>Guidelines</u>	This product does not contain limitsestablished by the region		ccupational exposure		
Engineeri	ng Measures	None under normal use conditi	ons.			
<u>Personal</u>	Protective Equipment					
Eye/fa	ce Protection	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 a	and body protection	Wear appropriate protective glo	oves and clothing to prevent sk	in exposure.		
Respi	ratory Protection	No protective equipment is needed under normal use conditions.				
Hygie	ne Measures	Handle in accordance with good industrial hygiene and safety practice.				

### 9. Physical and chemical properties

Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Powder Solid White Odorless No information available 2.7-3.3 5% aq.sol 188 - 190 °C / 370.4 - 374 °F No information available

Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits Upper
Lower
Vapor Pressure
Vapor Density Specific Gravity
Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature
Viscosity Molecular Formula Molecular Weight

No information available Not applicable No information available No data available

No data available No information available Not applicable No information available Soluble in water No data available Not applicable No information available Not applicable C10 H14 N5 Na2 O13 P3 . x H2 O 551.14

## **10. Stability and reactivity**

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Oxides of phosphorus	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

## **11. Toxicological information**

Acute Toxicity

Product Information Oral LD50 Dermal LD50	No acute toxicity information is available for this product Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Mist LC50	Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.
Component Information Toxicologically Synergistic	No information available
Products Delayed and immediate effects as	well as chronic effects from short and long-term exposure
Irritation	No information available
Sensitization	No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Adenosine 5'-triphosphate, disodium salt hydrate	34369-07-8	Not listed				
Mutagenic Effects	ts No information available					

**Reproductive Effects** 

No information available.

### Adenosine 5`-triphosphate, disodium salt hydrate

Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known Kidney Central nervous system (CNS) Blood
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

**12. Ecological information** 

Ecotoxicity Do not empty into drains.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

**13. Disposal considerations** 

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT	Not regulated	
<u>DOT</u> _ <u>TDG</u>	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Adenosine 5'-triphosphate, disodium salt hydrate	34369-07-8	-	-	-

Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL

### Adenosine 5`-triphosphate, disodium salt hydrate

Adenosine 5'-triphosphate, disodium salt hydrate	34369-07-8	-	-	-	-	-	-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

<b>U</b> .S	S. F	ederal	Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Adenosine 5'-triphosphate, disodium salt hydrate	34369-07-8	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

		(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)	
		Qualifying Quantities	Qualifying Quantities			
		for Major Accident	for Safety Report			
		Notification	Requirements			
Adenosine 5'-triphosphate, disodium salt hydrate	34369-07-8	Not applicable	Not applicable	Not applicable	Not applicable	

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### **16. Other information**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**