

Safety Data Sheet Version 3.10 Revised: 2016-05-02

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Name	ADP Disodium
<u>Other means of identification</u> Product Code(s) Synonyms	A2123 No information available
Product Use	For Laboratory Research Use Only.
Supplier/Manufacturer Biomatik Corporation 9-140 McGovern Dr. Cambridge, Ontario N3H 4R7 Canada	
Telephone Number E-mail Address	1-519-489-7195 info@biomatik.com
Emergency Telephone Number	Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Label elements

Emergency Overview

Appearance White

Physical State Crystalline Powder

Odor No information available

Hazards not otherwise classified (HNOC) Not regulated **Other Information**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Adenosine 5`-(trihydrogen	16178-48-6	240-314-7	95-100	Not applicable
diphosphate), disodium salt				

4. FIRST AID MEASURES

First Aid Measures	
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Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.		
Inhalation	Move to fresh air. If not breathing, give artificial respiration.		
Ingestion	Clean mouth with water and afterwards drink plenty of water. Call a physician immediately.		
Most important symptoms and effect	cts, both acute and delayed		
Most Important Symptoms/Effects	Symptoms/Effects No information available.		
Indication of any immediate medical attention and special treatment needed			
Notes to Physician	Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable Extinguishing Media No information available.			
<u>Specific Hazards Arising from the Chemical</u> No information available.			
Hazardous Combustion Products	Toxic, irritating fumes.		

Explosion DataSensitivity to Mechanical ImpactNone.Sensitivity to Static DischargeNone.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency proceduresPersonal protectionEnsure adequate ventilation, especially in confined areas.Environmental PrecautionsSee Section 12 for additional Ecological information.Methods and material for containmentSee Section 12 for additional Ecological information.Methods for ContainmentPrevent further leakage or spillage if safe to do so.Methods for Cleaning UpAvoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area
and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE					
Precautions for Safe Handling					
Handling	Handle in accordance with good moisture.	Handle in accordance with good industrial hygiene and safety practice. Protect from moisture.			
Conditions for safe storage, in	cluding any incompatibilities				
Storage	Keep container tightly closed in	a dry and well-ventilated place	. Protect from moisture.		
Incompatible Products	None known based on informat	ion supplied.			
8	. EXPOSURE CONTROLS/PEI	RSONAL PROTECTION			
Control parameters					
Exposure Guidelines	This product does not contain a established by the region specil		cupational exposure limits		
Chemical Name	ACGIH TLV	OSHÁ PEL	NIOSH IDLH		
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-	-	-		
Appropriate engineering contro	<u>ols</u>	I			
Engineering Measures	Showers Eyewash stations Ventilation systems.				
Individual protection measures	s, such as personal protective equip	ment			
Eye/Face Protection	Safety glasses with side-shields	S.			
Skin and Body Protection	Wear protective gloves/clothing	Wear protective gloves/clothing.			
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.				
Hygiene Measures	Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.				
	9. PHYSICAL AND CHEMI	CAL PROPERTIES			
Information on basic physical a	and chemical properties				
Physical State	Crystalline Powder				
Appearance Color	White No information available	••••			
Property pH Melting point/freezing point Boiling Point/Range Flash Point (High in °C) Evaporation Rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit:	<u>Values</u> No information available No information available No information available No information available No information available	<u>Remarks • Method</u>			
Vapor pressure Vapor Density	No information available No information available				

Specific Gravity
Water Solubility
Solubility in other solvents
Partition coefficient
Autoignition Temperature
Decomposition Temperature
Kinematic viscosity
Dynamic viscosity
Explosive Properties
Oxidizing Properties

Other Information

Softening Point Molecular Weight VOC Content Density Bulk Density No information available No information available

No information available

No information available No information available No information available No information available No information available

10. STABILITY AND REACTIVITY

Reactivity No data available

<u>Chemical Stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Conditions to Avoid</u> Protect from moisture. <u>Incompatible Materials</u> None known based on information supplied. <u>Hazardous Decomposition Products</u> Toxic fumes. Irritating fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	There is no data available for this product.
Eye Contact	There is no data available for this product.
Skin Contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Adenosine 5`-(trihydrogen	-	-	-
diphosphate), disodium salt			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.

Carcinogenicity	No information available.			
Chemical Name	ACGIH	IARC	NTP	OSHA
Adenosine 5`-(trihydrogen	-	-	-	-
diphosphate), disodium salt				
Reproductive Toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Adenosine 5`-(trihydrogen	-	-	-
diphosphate), disodium salt			

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical Name	Partition coefficient
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging

Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-	-	-	-

Chemical Name	California Hazardous Waste Status
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-

14. TRANSPORT INFORMATION

DOT

Not regulated

<u>IATA</u>

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Does not Comply
KECL	Complies
PICCS	Does not Comply
AICS	Complies

Legend

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

 ALCS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-	-	-

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Adenosine 5`-(trihydrogen diphosphate), disodium salt	-	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

16. OTHER INFORMATION

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet