

Safety Data Sheet

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Effective Date: April 19, 2024	Version number: 1.0

Section 1. Identification

GHS product identifier: Adenosine Injection, USPOther means of identification: Adenosine Injection, USPProduct type: Liquid.Relevant identified uses of the substance or mixture and uses advised againstProduct use: Pharmaceuticals. (For intended use only.) Observe technical data sheet/instructions for use. Specific Treatments: Adjunct to thallium-201 myocardial perfusion scintigraphy.Area of application: Professional applications.Supplier's details: Meitheal Pharmaceuticals, Inc. 8700 W. Bryn Mawr, Suite 600S Chicago, IL 60631 Telephone: 224-443-4617 www.meithealpharma.come-mail address of person responsible for this SDS: info@meithealpharma.comEmergency telephone number (with hours of operation): 844-824-8426 (Monday - Friday, 08:00 - 18:00 CST)			
Product type : Liquid. Relevant identified uses of the substance or mixture and uses advised against Product use : Pharmaceuticals. (For intended use only.) Observe technical data sheet/instructions for use. Specific Treatments: Adjunct to thallium-201 myocardial perfusion scintigraphy. Area of application : Professional applications. Supplier's details : Meitheal Pharmaceuticals, Inc. 8700 W. Bryn Mawr, Suite 600S Chicago, IL 60631 Telephone: 224-443-4617 www.meithealpharma.com e-mail address of person responsible for this SDS : info@meithealpharma.com Emergency telephone number (with hours of : 844-824-8426 (Monday - Friday, 08:00 - 18:00 CST)	GHS product identifier	:	Adenosine Injection, USP
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	number (with hours of	-	844-824-8426 (Monday - Friday, 08:00 - 18:00 CST)

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for
	employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.



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Section 2. Hazards identification

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Adenosine Injection,

Ingredient name	Other names	%	Identifiers
water	-	≥90	CAS: 7732-18-5
sodium chloride	Sodium chloride	<1	CAS: 7647-14-5
adenosine	-	<1	CAS: 58-61-7
nitrogen	Nitrogen	≤0.3	CAS: 7727-37-9

Any concentration shown as a range is to protect confidentiality or a due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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Section 4. First aid measures

Description of necessary first aid measures			
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. 		
Inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 		
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.		
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.		

Most important symptoms/effects, acute and delayed

Potential acute health effe	ects	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/symptoms		
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: No specific data.	



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Section 4. First aid measures

Ingestion

: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.	

See toxicological information (Section 11)

Section 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media : Do not use water jet. Unsuitable extinguishing media Specific hazards arising : In a fire or if heated. pressure increase will occur and the container may burst. from the chemical Hazardous thermal No specific data decomposition products **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there for fire-fighters is a fire. No action shall be taken involving any personal risk or without suitable training. **Special protective** : Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	



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Section 6. Accidental release measures

Methods and materia	als for containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

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Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
water sodium chloride	None. None.
adenosine nitrogen	None. ACGIH TLV (United States, 7/2023) Oxygen depletion [asphyxiant].

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.



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Section 8. Exposure controls/personal protection

Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures :	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection :	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection :	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection :	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection :	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection :	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance		
Physical state	1	Liquid. [Clear.]
Color	1	Colorless.
Odor	1	Not available.
Odor threshold	:	Not available.
рН	1	4.5 to 7.5
Melting point	:	Not available.
Boiling point or initial boiling point and boiling range	:	Not available.
Flash point	:	Not available.



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Section 9. Physical and chemical properties

Evaporation rate	: Not available.							
Flammability	: Not available.							
Lower and upper explosion limit/flammability limit	:	Not available.						
Vapor pressure	:		Vapo	r Press	ure at 20°C	Vap	or press	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		water	17.5	2.3		92.258	12.3	
Relative vapor density	:	Not available.			<u> </u>		I	
Relative density	:	1.005			>			
Density	:	1.005 g/cm³ [25°C (7	′7°F)]		0			
Solubility(ies)	: Media Result							
		water	Ea	sily solu	ble			
Miscible with water	:	Yes.						
Partition coefficient: n- octanol/water	1	Not applicable.	$\overline{\mathbf{a}}$)				
Auto-ignition temperature	:	Not available.	V					
Decomposition temperature	1	Not available.						
SADT	:	: Not available.						
Viscosity	:	: Dynamic (room temperature): Not applicable. Kinematic (room temperature): Not applicable. Kinematic (40°C (104°F)): Not applicable.						
Flow time (ISO 2431)	1	Not available.						
Particle characteristics								
Median particle size	:	Not applicable.						
Other information								
Physical/chemical properties comments	:	No additional inform	ation.					

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.



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Section 10. Stability and reactivity

Conditions to avoid

: No specific data.

Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials.

- Hazardous decomposition products
- : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

7.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	• Species	Dose	Exposure
sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
adenosine	LD50 Oral	Mouse	>20 g/kg	-
	LD50 Oral	Rat - Female	>2000 mg/kg	-

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium chloride	Eyes - Moderate mitant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

<u>Mutagenicity</u>		
Conclusion/Summary	:	Not available.
<u>Carcinogenicity</u>		
Conclusion/Summary	:	Not available.
Reproductive toxicity		
Conclusion/Summary	:	Not available.
Teratogenicity		
Conclusion/Summary	:	Not available.
Specific target organ toxicity	<u>(</u>	<u>single exposure)</u>
Not available.		
Specific target organ toxicity Not available.	<u>/ (</u> 1	<u>repeated exposure)</u>

Aspiration hazard



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Section 11. Toxicological information

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	1	No known significant effects or critical hazards.
Symptoms related to the phy		al, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	4	No specific data.
Skin contact	4	No specific data.
Ingestion	1	No specific data.
Delayed and immediate effec	ts a	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	;	Not available.
		Not available.
effects		
effects Potential delayed effects		
effects Potential delayed effects <u>Long term exposure</u> Potential immediate	:	Not available.
effects Potential delayed effects <u>Long term exposure</u> Potential immediate effects	:	Not available. Not available.
effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	: : : ect:	Not available. Not available.
effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effe General Carcinogenicity	: : : ect:	Not available. Not available. Not available.
effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effe General	: : : ect:	Not available. Not available. Not available. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ I)
sodium chloride	3000	N/A	N/A	N/A	N/A
adenosine	2500	N/A	N/A	N/A	N/A



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Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Grustaceans - Hyalella azteca -	3 weeks
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - <i>Lemna minor</i>	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
adenosine	Acute EC50 >100 mg/l Fresh water	Algae	72 hours
	Acute EC50 >120 mg/l -resh water	Daphnia	48 hours
	Acute NOEC 100 mg/l Fresh water	Algae	72 hours
	Acute NOEC 120 mg/l Fresh water	Daphnia	48 hours

Conclusion/Summary

: Not available.

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
adenosine	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
water	-1.38		Low
adenosine	-1.05		Low
nitrogen	0.67		Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.



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Section 13. Disposal considerations

Dis	posal	methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport information

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	DOT Classification	MDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-		-
Transport hazard class(es)	-		-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations	:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
		United States inventory (TSCA 8b): All components are active or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not listed



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Section 15. Regulatory information

Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
<u>SARA 302/304</u>	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: Not applicable.
Composition/information	on ingredients
Name	% Classification
sodium chloride nitrogen	<1 EYE IRRITATION - Category 2A ≤0.3 GASES UNDER PRESSURE - Compressed gas
	SIMPLE ASPHYXIANTS
<u>SARA 313</u>	
Not applicable.	
State regulations	
Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
<u>California Prop. 65</u>	
This product does not	require a Safe Harbor warning under California Prop. 65.
International regulations	
<u>Chemical Weapon Conven</u>	tion List Schedules I, II & III Chemicals
Not listed.	

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)



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Section 15. Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

	Classification	Justification	
Not classified.			
<u>History</u>		-	
Date of issue/Date of revision	: 04/19/2024		
Date of previous issue	: No previous validation		
Version	: 1.0		
Prepared by	: Sphera Solutions		
Key to abbreviations	8-hr shift BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification a IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods	TE = Acute Toxicity Estimate MP = Acceptable maximum peak above the acceptable ceiling concentration for an -hr shift CF = Bioconcentration Factor HS = Globally Harmonized System of Classification and Labelling of Chemicals ATA = International Air Transport Association BC = Intermediate Bulk Container	



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Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
UN = United Nations
HCS (U.S.A.)- Hazard Communication Standard

References

HCS (U.S.A.)- Hazard Communication Standard International transport regulations

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain bazards are described herein, we cannot guarantee that these are the only hazards that exist.

