

**2'-Deoxy-2-fluoroadenosine** Safety Data Sheet 4H59322 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/28/2016 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 2'-Deoxy-2-fluoroadenosine	
CAS No	: 21679-12-9	
Product code	: 4H59-3-22	
Formula	: C10H12FN5O3	
Synonyms	: 9-(2-Deoxy-beta-D-ribofuranosyl)-2-fluoroadenine	
Other means of identification	: MFCD09750859	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the sa	fety data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab		
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identificat	ion	
2.1. Classification of the substance		
Classification (GHS-US)		
Skin Irrit. 2 H315 - Causes skin Eye Irrit. 2A H319 - Causes serio	rritation us eye irritation	
Skin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes sericSTOT SE 3H335 - May cause re	rritation us eye irritation	
Skin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes sericSTOT SE 3H335 - May cause reFull text of H-phrases: see section 162.2.Label elements	rritation us eye irritation	
Skin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes sericSTOT SE 3H335 - May cause reFull text of H-phrases: see section 16	rritation us eye irritation	
Skin Irrit. 2       H315 - Causes skin         Eye Irrit. 2A       H319 - Causes seric         STOT SE 3       H335 - May cause reference         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	rritation us eye irritation	
Skin Irrit. 2 H315 - Causes skin Eye Irrit. 2A H319 - Causes serio STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	rritation us eye irritation spiratory irritation : : : : : : : : : : : : : : : : : : :	
Skin Irrit. 2 H315 - Causes skin Eye Irrit. 2A H319 - Causes serio STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	rritation us eye irritation spiratory irritation	
Skin Irrit. 2 H315 - Causes skin Eye Irrit. 2A H319 - Causes serio STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	rritation us eye irritation spiratory irritation :	cian if you feel unwell table for breathing minutes. Remove contac

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P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant

**Other hazards** No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

2.3.

#### **SECTION 3: Composition/information on ingredients** 0.4 Cubatan

Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2'-Deoxy-2-fluoroadenosine (Main constituent)	(CAS No) 21679-12-9	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.		
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact len present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Switchle ovtingwiching modio	· Alaskal registert from Carbon disvide. Dry neuron Water aprove lies extinguishing modia		

Suitable extinguishing media		: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2.	Special hazards arising from the su	stance or mixture
Fire hazard		: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.
5.3.	Advice for firefighters	
Firefighting instructions		: In case of fire: Evacuate area.
Protection during firefighting		: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
General measures		: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.	
6.1.1. Emerge	For non-emergency personnel ncy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	

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6.1.2. For emergency responders Protective equipment	<ul> <li>S</li> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>
6.2. Environmental precautions	
Avoid release to the environment. Noti	ify authorities if product enters sewers or public waters.
6.3. Methods and material for c	containment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other section	S
No additional information available	
SECTION 7: Handling and sto	orage
7.1. Precautions for safe handl	ing
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storag	e, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

### **SECTION 8: Exposure controls/personal protection**

8.1. **Control parameters** 

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

# **SECTION 9: Physical and chemical properties**

Information on basis physical and shamical r

9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 219 °C (dec.)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available

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Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 269.23 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
Under r	ormal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

fire, see Section 5.

SECTION	11: Tox	icological	information

Information on toxicological effects 11.1.

Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information							
12.1.	Toxicity						
No additional information available							
12.2.	Persistence and degradability						
No additional information available							
12.3.	Bioaccumulative potential						
No additional information available							
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	tions						
13.1. Waste treatment methods							
Waste treatment methods	: Remove to an authorized incinerator equipped with an	afterburner and a flue gas scrubber.					
Waste disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.							
Additional information	: Recycle the material as far as possible.						
SECTION 14: Transport informat	ion						
Department of Transportation (DOT)							
In accordance with DOT							
Not regulated for transport							
TDG							
No additional information available							
Transport by sea							
No additional information available							
Air transport							
No additional information available							
SECTION 15: Regulatory informa	tion						
15.1. US Federal regulations							
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:							
2'-Deoxy-2-fluoroadenosine	CAS No 21679-12-9	100%					
	toxic chemical or chemicals in excess of the applicable de min equirements of section 313 of Title III of the Superfund Amendm						
15.2. International regulations							
CANADA No additional information available							
EU-Regulations							

No additional information available

National regulations No additional information available

# 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

# **SECTION 16: Other information**

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Full text of H-phrases:					
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4		
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A		
	Skin Irrit. 2		Skin corrosion/irritation Category 2		
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3		
	H302		Harmful if swallowed		
	H315		Causes skin irritation		
	H319		Causes serious eye irritation		
	H335		May cause respiratory irritation		
NFPA f	nealth hazard ïre hazard reactivity	<ul> <li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>0 - Materials that will not burn.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>			
HMIS III Rating					
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given			
Flamma	ability	: 0 Minimal Hazard - Mate	rials that will not burn		
Physical :			0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.		

### SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.