

2'-Fluoro-2'-deoxyguanosine Safety Data Sheet 4H12320 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/10/2017 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 2'-Fluoro-2'-deoxyguanosine	
CAS No	: 78842-13-4	
Product code	: 4H12-3-20	
Formula	: C10H12FN5O4	
Synonyms	: 9-(2-fluoro-2-deoxy-beta-D-ribofurance	syllauanine: 2-EluorodGuo: 2'-D-2'-EG
Other means of identification	: MFCD00923832	
	tance or mixture and uses advised aga	inct
Use of the substance/mixture		linst
	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the safety	data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.co	<u>n</u>	
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Accor	unt 10069)
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or n	nixture	
Classification (GHS-US)		
Acute Tox. 4 (Oral)H302 - Harmful if swallovSkin Irrit. 2H315 - Causes skin irritaEye Irrit. 2AH319 - Causes serious eSTOT SE 3H335 - May cause respire	ion /e irritation	
Full text of H-phrases: see section 16		
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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- 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

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2'-Fluoro-2'-deoxyguanosine (Main constituent)	(CAS No) 78842-13-4	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of H-phrases, see s

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 lenses, if 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 a	attention and special treatment needed	
Treat symptomatically.		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
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 subs	stance or mixture	

: Thermal decomposition genera	rates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.	
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-	5.3. Advice for firefighters	
F	Firefighting instructions	: In case of fire: Evacuate area.
F	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".
		apparatus. For further information refer to section 8: "Exposure controls/personal protectio

SECT	ION 6: Accidental release meas	sures
6.1.	Personal precautions, protective eq	uipment 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.

Fire hazard

Safety Data Sheet

ccording to Federal Register / Vol. 77, No. 58	/ Monday, March 26, 2012 / Rules and Regulations
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify	v authorities if product enters sewers or public waters.
6.3. Methods and material for co	ontainment 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 sections	
No additional information available	
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handlin	ng
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 storage,	, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, well-ventilated area.

SECTION 8: Exposure controls/personal protection **Control parameters** 8.1. 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. : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Respiratory protection Protection.

Other information : Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1

9.1. Information on pasic physical and	a chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 254 - 262 °C
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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Explosive properties	: No data available
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	: 285.23 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

	SECTION	10: Stability and	reactivity
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10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information 11.1. Information on toxicological effects 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

SECTIO	DN 12: Ecological information
12.1.	Toxicity
No additio	onal information available
12.2.	Persistence and degradability
No additio	onal information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.3.	Bioaccumulative potential		
No addi	tional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Other adverse effects		
No addi	tional information available		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations Additional information Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
 Dispose of contents/container in accordance with licensed collector's sorting instructions.

- : Recycle the material as far as possible.
- **SECTION 14: Transport information**

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 information

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'-Fluoro-2'-deoxyguanosine	CAS No 78842-13-4	100%	
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 health hazard NFPA fire hazard NFPA reactivity	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 			
HMIS III Rating				
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given			
Flammability	: 0 Minimal Hazard - Materials 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.