

Safety Data Sheet 4H481020 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/27/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3'-Acetylthymidine
CAS No	: 21090-30-2
Product code	: 4H48-1-020
Formula	: C12H16N2O6
Synonyms	: 3'-O-Acetylthymidine
Other means of identification	: MFCD00056059
1.2. Relevant identified uses of the s	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 saf	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati 2.1. Classification of the substance	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i	irritation
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	irritation
Eye Irrit. 2AH319 - Causes serious eye iSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 162.2.Label elements	irritation
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation ry irritation
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation ry irritation
Eye Irrit. 2AH319 - Causes serious eye iSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 162.2.Label elements	irritation ry irritation
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>irritation</li> <li>ry irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: Warning</li> <li>: H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> </ul>

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
ECTION 3: Composition/informati	on on ir	aredients		
.1. Substance				
Substance type	: Mon	o-constituent		
	-	Product identifier	%	Classification (CHS US)
Name 3'-Acetylthymidine		(CAS No) 21090-30-2	<b>70</b> <= 100	Classification (GHS-US) Skin Irrit. 2, H315
(Main constituent)			100	Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16				
.2. Mixture				
ot applicable				
ECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general		se of accident or if you feel unwell, seel e possible). Move the affected personne		
irst-aid measures after inhalation		ove person to fresh air and keep comfo ration. Get medical advice/attention.	table for breath	ing. If not breathing, give artificial
irst-aid measures after skin contact	•	h with plenty of soap and water. Get me	dical advice/atte	ention.
irst-aid measures after eye contact	: Imm	ediately flush eyes thoroughly with wate	r for at least 15	minutes. Remove contact lenses, if
First-aid measures after ingestion       present and easy to do. Continue rinsing. Get 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 medical advice/attention.				
.2. Most important symptoms and effe	ects, both	acute and delayed		
, where the set of the line set of the set o				
symptoms/injuries		most important known symptoms and el and/or in section 11.	fects are descril	bed in the labelling (see section
	2.2)	and/or in section 11.	fects are descril	bed in the labelling (see section
.3. Indication of any immediate medic	2.2)	and/or in section 11.	fects are descril	bed in the labelling (see section
.3. Indication of any immediate medic reat symptomatically.	2.2)	and/or in section 11.	fects are descrit	bed in the labelling (see section
.3. Indication of any immediate medic reat symptomatically. SECTION 5: Firefighting measures	2.2)	and/or in section 11.	fects are descrit	bed in the labelling (see section
.3. Indication of any immediate medic reat symptomatically. SECTION 5: Firefighting measures .1. Extinguishing media	2.2) cal attention : Alco	and/or in section 11.		
<ul> <li>Indication of any immediate medic reat symptomatically.</li> <li>ECTION 5: Firefighting measures</li> <li>1. Extinguishing media</li> <li>uitable extinguishing media</li> </ul>	2.2) al attention : Alco appr	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire.		
<ul> <li>Indication of any immediate medic reat symptomatically.</li> <li>ECTION 5: Firefighting measures</li> <li>1. Extinguishing media</li> <li>uitable extinguishing media</li> <li>2. Special hazards arising from the s</li> </ul>	2.2) al attention : Alco appr ubstance	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire.	powder. Water s	spray. Use extinguishing media
<ul> <li>Indication of any immediate medic reat symptomatically.</li> <li>ECTION 5: Firefighting measures         <ol> <li>Extinguishing media</li> <li>Extinguishing media</li> <li>Special hazards arising from the s ire hazard</li> </ol> </li> </ul>	2.2) al attention : Alco appr ubstance	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire. or mixture	powder. Water s	spray. Use extinguishing media
<ul> <li>.3. Indication of any immediate medic reat symptomatically.</li> <li>SECTION 5: Firefighting measures</li> <li>.1. Extinguishing media</li> <li>auitable extinguishing media</li> <li>.2. Special hazards arising from the s ire hazard</li> <li>.3. Advice for firefighters</li> </ul>	2.2) al attention : Alco appr ubstance : Ther	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire. or mixture	powder. Water s	spray. Use extinguishing media
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<ul> <li>.3. Indication of any immediate medic reat symptomatically.</li> <li>ECTION 5: Firefighting measures</li> <li>.1. Extinguishing media</li> <li>.2. Special hazards arising from the s ire hazard</li> <li>.3. Advice for firefighters</li> <li>irefighting instructions</li> <li>Protection during firefighting</li> </ul>	2.2) al attention : Alco appr ubstance : Ther : In ca : Wea appa	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire. or mixture mal decomposition generates: Carbon of ise of fire: Evacuate area. r gas tight chemically protective clothing	powder. Water s oxides. Nitrogen i in combination	spray. Use extinguishing media oxides.
<ul> <li><b>3.</b> Indication of any immediate medic reat symptomatically.</li> <li><b>ECTION 5: Firefighting measures</b> <ol> <li><b>ECTION 5: Firefighting media</b></li> <li><b>Extinguishing media</b></li> </ol> </li> <li><b>2.</b> Special hazards arising from the size hazard</li> <li><b>3.</b> Advice for firefighters irefighting instructions rotection during firefighting</li> <li><b>ECTION 6: Accidental release mean</b></li> </ul>	2.2) al attention : Alco appr ubstance : Ther : In ca : Wea appa asures	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire. or mixture mal decomposition generates: Carbon of ise of fire: Evacuate area. r gas tight chemically protective clothing iratus. For further information refer to se	powder. Water s oxides. Nitrogen i in combination	spray. Use extinguishing media oxides.
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Indication of any immediate medic reat symptomatically.     SECTION 5: Firefighting measures     I. Extinguishing media     Suitable extinguishing media     Special hazards arising from the s     Tire hazard     Advice for firefighters     Tirefighting instructions     Protection during firefighting     SECTION 6: Accidental release measures     I. Personal precautions, protective e     Seneral measures     I.I. For non-emergency personnel	2.2) al attention : Alco appr ubstance : Ther : In ca : Wea appa asures equipment : Evac	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire. or mixture mal decomposition generates: Carbon of use of fire: Evacuate area. r gas tight chemically protective clothing iratus. For further information refer to se and emergency procedures cuate unnecessary personnel. Ensure ac	powder. Water s oxides. Nitrogen ) in combination ction 8: "Exposu	spray. Use extinguishing media oxides. with self contained breathing ire controls/personal protection".
Treat symptomatically.         SECTION 5: Firefighting measures         5.1. Extinguishing media         Suitable extinguishing media         5.2. Special hazards arising from the s         Fire hazard         5.3. Advice for firefighters         Firefighting instructions         Protection during firefighting         SECTION 6: Accidental release meas         6.1. Personal precautions, protective e         Seneral measures	2.2) al attention : Alco appr ubstance : Ther : In ca : Wea appa asures equipment : Evac	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire. or mixture mal decomposition generates: Carbon of se of fire: Evacuate area. r gas tight chemically protective clothing iratus. For further information refer to se and emergency procedures	powder. Water s oxides. Nitrogen ) in combination ction 8: "Exposu	spray. Use extinguishing media oxides. with self contained breathing ire controls/personal protection".
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<ul> <li><b>3.</b> Indication of any immediate medic reat symptomatically.</li> <li><b>ECTION 5: Firefighting measures</b> <ol> <li><b>Extinguishing media</b></li> <li><b>Extinguishing media</b></li> </ol> </li> <li><b>2.</b> Special hazards arising from the size hazard</li> <li><b>3.</b> Advice for firefighters irefighting instructions rotection during firefighting</li> </ul> <b>ECTION 6: Accidental release measures</b> <ol> <li><b>Personal precautions, protective e</b> eneral measures</li> <li><b>For non-emergency personnel</b> mergency procedures</li> </ol>	2.2) al attention : Alco appr ubstance : Ther : In ca : Wea appa asures : Evac : Only : Do n	and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire. or mixture mal decomposition generates: Carbon of use of fire: Evacuate area. r gas tight chemically protective clothing iratus. For further information refer to se and emergency procedures cuate unnecessary personnel. Ensure ac	powder. Water s oxides. Nitrogen i in combination ction 8: "Exposu dequate air venti ble protective equi e protective equi	spray. Use extinguishing media oxides. with self contained breathing ire controls/personal protection".

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containm	nent 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 storage			
7.1. Precautions for safe handling			
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. Hygroscopic. Keep contents under inert gas.		
Incompatible materials	Refer to Section 10 on Incompatible Materials.		

Storage temperature	: -2510 °C Use explosion proof freezer
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.
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				
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	: 174 °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			
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			

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Molecular mass	: 284.2652 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 add	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials

Strong acids. Strong bases. 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	: Not classified
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

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

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# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerat	ions
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 information	an

### **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

3'-Acetylthymidine CAS No 21090-30-2 100%	Substances Control Act (13CA) Inventory except for.				
	1	3'-Acetylthymidine			

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**

### Full text of H-phrases:

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	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	

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NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and w 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.