

Safety Data Sheet 2H10153 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/21/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3,6-Dihydro-2H-pyran
CAS No	: 3174-74-1
Product code	: 2H10-1-53
Formula	: C5H8O
Other means of identification	: MFCD17171194
1.2. Relevant identified uses of the sub-	stance 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 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.com	<u>m</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or r	
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrita STOT SE 3 H335 - May cause respiratory irr Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS02 GHS07
Signal word (GHS-US) Hazard statements (GHS-US)	 GHS02 GHS07 Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
	 Danger H225 - Highly flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation

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	lenses, if present and easy to do. P312 - Call a POISON CENTER P321 - Specific treatment (see su P332+P313 - If skin irritation occu P337+P313 - If eye irritation pers P362+P364 - Take off contamina P370+P378 - In case of fire: Use P403+P233 - Store in a well-vent P403+P235 - Store in a well-vent P405 - Store locked up P501 - Dispose of contents/conta	or doctor/physician if you pplemental first aid instru urs: Get medical advice/at ists: Get medical advice/at ted clothing and wash it b dry sand, dry chemical or ilated place. Keep cool	ctions on this label) tention ttention efore reuse alcohol-resistant foam to extinguish er tightly closed
2.3. Other hazards No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
3,6-Dihydro-2H-pyran (Main constituent)	(CAS No) 3174-74-1	<= 100	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16			
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 u where possible). Move the affecte	ed personnel away from the	ne contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and k respiration. Get medical advice/a	tention.	
First-aid measures after skin contact	: Wash with plenty of soap and wa		
First-aid measures after eye contact	present and easy to do. Continue	rinsing. Get medical advi	
First-aid measures after ingestion	: Do NOT induce vomiting. Never of mouth out with water. Get medicated	, , , ,	an unconscious person. Rinse
4.2. Most important symptoms and effe	cts, both acute and delayed		
Symptoms/injuries	: The most important known sympt 2.2) and/or in section 11.	oms and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate medica	al attention and special treatment ne	eded	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon di appropriate for surrounding fire.	oxide. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the su	Ibstance or mixture		
Fire hazard	: Thermal decomposition generate		
Explosion hazard	: Risk of explosion if heated under containers. May form flammable/		
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fig		•
Protection during firefighting	: Wear gas tight chemically protect apparatus. For further information		

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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 gas, fumes, vapor or spray.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
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".		
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.		
6.2. Environmental precautions			
Avoid release to the environment. Notify authoriti	es if product enters sewers or public waters.		
6.3. Methods and material for containme	nt and cleaning up		
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.		
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			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
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 fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
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	ng any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.		
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

: 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.
: Protective gloves. 29 CFR 1910.138: Hand Protection.
: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
: Wear suitable protective clothing.
: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
: Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemica	l properties		
9.1. Information on basic physical and	d chemical properties		
Physical state	: Liquid		
Color	: No data available		
Ddor	: No data available		
Ddor threshold	: No data available		
ЪН	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 92 - 93 °C		
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		
/apor pressure	: No data available		
Relative density	: No data available		
Relative vapor density at 20 °C	: No data available		
Specific gravity / density	: 0.9215 g/ml (@ 20 °C)		
Molecular mass	: 84.12 g/mol		
Solubility	: No data available		
log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
/iscosity	: No data available		
/iscosity, kinematic	: No data available		
/iscosity, dynamic	: No data available		
9.2. Other information			
Refractive index	: 1.4438 (@ 20 °C)		
SECTION 10: Stability and reactivi	tv		
10.1. Reactivity	, y		
No additional information available			
0.2. Chemical stability	dama and a difference		
The product is stable at normal handling and s	-		
10.3. Possibility of hazardous reactions	S		
No additional information available			
10.4. Conditions to avoid			
Keep away from heat, sparks and flame.			
0.5. Incompatible materials			
Strong oxidizing agents.			
10.6. Hazardous decomposition produc	cts		
Jnder normal conditions of storage and use, h		not be produced. Hazardous decompositi	ion products in case o
ire, see Section 5.			
SECTION 11: Toxicological inform	ation		
I1.1. Information on toxicological effect			
	13		
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
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5	,	
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	

SECT	ION 12: Ecological information
12.1.	Toxicity
No addit	tional information available
12.2.	Persistence and degradability
No addi	tional information available
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	: 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

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN1993 Flammable liquids, n.o.s., 3, II

: UN1993

- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



: II - Medium Danger

: 202

: 242

: G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger
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:

3,6-Dihydro-2H-pyran	CAS No 3174-74-1	100%

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

3,6-Dihydro-2H-pyran (3174-74-1)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law)

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15.3. US State regulations		
3,6-Dihydro-2H-pyran (3174-74-1)		
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List	

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

	of H-phrases:	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Liq. 2	Flammable liquids Category 2
5	Skin Irrit. 2	Skin corrosion/irritation Category 2
ę	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H	H225	Highly flammable liquid and vapor
H	H315	Causes skin irritation
H	H319	Causes serious eye irritation
H	H335	May cause respiratory irritation
NFPA he NFPA fire NFPA rea		 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 3 - Liquids and solids that can be ignited under almost all ambient conditions. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III I Health	Rating	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammab	bility	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
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.