

Safety Data Sheet 1500115 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/16/2019 Version: 1.0

1.1. Identification Product form	: Substance
Substance name	: 1-Ethynylcyclohexene : 931-49-7
CAS No	
Product code	: 1500-1-15
Formula	: C8H10
Synonyms	: 1-Ethynylcyclohex-1-ene
Other means of identification	: MFCD00001568
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 safe	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	lon
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye inSTOT SE 3H335 - May cause respirator	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye in STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye in STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye in 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)	rritation ry irritation
Eye Irrit. 2A H319 - Causes serious eye in STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	irritation ty irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye in 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)	 irritation

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3	.,,	,		
	lensi P312 P32 P332 P332 P332 P332 P332 P332	5+P351+P338 - If in eyes: Rinse cautiou es, if present and easy to do. Continue r 2 - Call a POISON CENTER or doctor/pl 1 - Specific treatment (see supplemental 2+P313 - If skin irritation occurs: Get me 2+P364 - Take off contaminated clothing 0+P378 - In case of fire: Use dry sand, c 3+P233 - Store in a well-ventilated place 3+P235 - Store in a well-ventilated place 5 - Store locked up 1 - Dispose of contents/container to an a	insing hysician if you fi l first aid instruc- dical advice/att edical advice/att g and wash it be lry chemical or a. Keep containe a. Keep cool	eel unwell ttions on this label) ention tention efore reuse alcohol-resistant foam to extinguish er tightly closed
2.3. Other hazards				
Other hazards not contributing to the classification	: Lach	irymator.		
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informat	ion on ir	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
1-Ethynylcyclohexene (Main constituent)		(CAS No) 931-49-7	<= 100	Flam. Liq. 3, H226 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	whei	ase of accident or if you feel unwell, seel re possible). Move the affected personne	el away from the	e contaminated area.
First-aid measures after inhalation		ove person to fresh air and keep comfo iration. Get medical advice/attention.	rtable for breath	ning. If not breathing, give artificial
First-aid measures after skin contact		h with plenty of soap and water. Get me		
First-aid measures after eye contact		ediately flush eyes thoroughly with wate ent and easy to do. Continue rinsing. Ge		
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.		
4.2. Most important symptoms and eff	ects, 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 media	cal attentio	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire.	powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the s	substance	or mixture		
Fire hazard	: Ther	mal decomposition generates: Carbon c	oxides.	
Explosion hazard		of explosion if heated under confinement ainers. May form flammable/explosive va		
5.3. Advice for firefighters				
Firefighting instructions	: In ca	ase of fire: Evacuate area. Fight fire rem	otely due to the	risk of explosion.
Protection during firefighting		r gas tight chemically protective clothing aratus. For further information refer to se		
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SECTION 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 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 authorit	ies if product enters sewers or public waters.
6.3. Methods and material for containme	ent 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 temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, 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.

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SECTION 9: Physical and chemical	properties		
9.1. Information on basic physical and			
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 148 - 151 °C		
Flash point	: 29 °C		
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		
Specific gravity / density	: 0.903 g/ml (@ 25 °C)		
Molecular mass	: 106.165 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			
Refractive index	: 1.496 (@ 20 °C)		
SECTION 40. Stability and reactivity			
SECTION 10: Stability and reactivit	у		
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and s	torage 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 produc	ts		
Under normal conditions of storage and use, h		Id not be produced. Hazardous decomposition	products in case of
fire, see Section 5.			
SECTION 11: Toxicological information	ation		
11.1. Information on toxicological effect			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
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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
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
No additional information available

SECTION 13: Disposal consideration	ns
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

: UN3295 Hydrocarbons, liquid, n.o.s., 3, III

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)

- : UN3295
- : Hydrocarbons, liquid, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242

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DOT Special Provisions (49 CFR 172.102)	.12, that has l roleum Institu material are n aining in the t licable regula - If the materia c packaging re h point of less chapter are a - Authorized HZ1 and 31H/ a vapor pres I.3 bar at 131 r UN2672). - 2.65 178.274 J - The maxim wing: Degree ng transport, 29 - A portable vided the calc	ad as a residue in an underground storage tank (UST), as defined in 40 CFR been cleaned and purged or rendered inert according to the American e (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and not subject to any other requirements of this subchapter. However, sediments ank that meet the definition for a hazardous material are subject to the tions of this subchapter. Al has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the quirements of 173.241 of this subchapter are applicable. If the material has a than 38 C (100 F), then the bulk packaging requirements of 173.242 of this opplicable. BCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite λ_2 , 31HB2, 31HD2, and 31HH2). Additional Requirement: Only liquids sure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table H(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	L	
DOT Vessel Stowage Location	The material i senger vesse	nay be stowed "on deck" or "under deck" on a cargo vessel and on a .
Other information	supplementar	y information available.
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	5	
Proper Shipping Name (IMDG)	DROCARBON	IS, LIQUID, N.O.S.
Class (IMDG)	Flammable liq	uids
Packing group (IMDG)	substances p	resenting low danger
Air transport		
UN-No. (IATA)	5	
Proper Shipping Name (IATA)	Irocarbons, lic	uid, n.o.s.
Class (IATA)	Flammable Li	quids
Packing group (IATA)	Minor Dange	
SECTION 15: Regulatory information		

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:

1-Ethynylcyclohexene	CAS No 931-49-7	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

1-Ethynylcyclohexene (931-49-7)

Listed on the Canadian DSL (Domestic Sustances List)

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EU-Regulations

No additional information available

National regulations

1-Ethynylcyclohexene (931-49-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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:

shi ul li-pillases.	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3 Flammable liquids Category 3	
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 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.