

2-Vinylpyridine Safety Data Sheet 3H3212M according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/13/2016 Version: 1.0

I.1. Identification	
Product form	: Substance
Substance name	: 2-Vinylpyridine
CAS No	: 100-69-6
Product code	: 3H32-1-2M
Formula	: C7H7N
Synonyms	: 2-Ethenylpyridine
Other means of identification	: MFCD00006355
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 th	ie safety data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States of A T (386) 462-0788 - F (386) 462-7097	(merica
info@synquestlabs.com - www.synque	stlabs.com
1.4. Emergency telephone num	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identif	ication
2.1. Classification of the substa	ance or mixture
Classification (GHS-US)	
	mable liquid and vapour
Acute Tox. 3 (Oral) H301 - Toxic	
Acute Tox. 3 (Dermal) H311 - Toxic	in contact with skin
	es severe skin burns and eye damage
	es serious eye damage cause an allergic skin reaction
	to aquatic life
	to aquatic life with long lasting effects
Aquatic Chronic 2 H411 - Toxic	to aquatic life with long lasting effects
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16	to aquatic life with long lasting effects
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements	to aquatic life with long lasting effects
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	to aquatic life with long lasting effects
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	to aquatic life with long lasting effects
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	HS02 GHS05 GHS06 GHS07 GHS09
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 GHS02 GHS02 GHS05 GHS06 GHS07 GHS09 GHS09 GHS09 GHS09 GHS09 GHS01 H226 - Flammable liquid and vapor H301+H311 Toxic if swallowed or in contact with skin
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Example 1 Example 2 Example 2
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Example of the second se
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Example of the second se
Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 For the second second
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Aquatic Chronic 2 H411 - Toxic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 For a second s

ccording to Federal Register / Vol. 77, No. 58 / Monday, No.				
	P273 P280 P301 P302 P303 skin v P305 lense P310 P321 P333 P361 P363 P370 P391 P403 P405	 Contaminated work clothing must no. Avoid release to the environment Wear protective gloves/protective cl+P310 - If swallowed: Immediately cal+P330+P331 - If swallowed: rinse mout+P361+P353 - If on skin (or hair): Tak with water/shower +P340 - If inhaled: Remove person to +P351+P338 - If in eyes: Rinse cautio es, if present and easy to do. Continue Immediately call a POISON CENTE Specific treatment (see supplementation or rash occurs) Take off immediately all contaminated Wash contaminated clothing before +P378 - In case of fire: Use dry sand, Collect spillage +P235 - Store in a well-ventilated place Store locked up Dispose of contents/container to an 	othing/eye prote l a poison cente th. Do NOT ind f soap and wate e off immediatel fresh air and ke usly with water t rinsing R or doctor/ phy al first aid instruct : Get medical are ed clothing reuse dry chemical or e. Keep cool	action/face protection r/doctor/ uce vomiting r y all contaminated clothing. Rinse ep comfortable for breathing for several minutes. Remove contact rsician ctions on this label) dvice/attention alcohol-resistant foam to extinguish
2.3. Other hazards				
Other hazards not contributing to the classification	: Lach	rymator.		
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
	on in	aredients		
SECTION 3: Composition/information	n on in	gredients		
SECTION 3: Composition/informatior 3.1. Substance		gredients		
SECTION 3: Composition/information 3.1. Substance Substance type		p-constituent	%	Classification (GHS-US)
SECTION 3: Composition/informatior 3.1. Substance			<mark>%</mark> <= 100	Classification (GHS-US) Flam. Lig. 3, H226
SECTION 3: Composition/information 3.1. Substance Substance type Name 2-Vinylpyridine (Main constituent)		o-constituent Product identifier		
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SECTION 3: Composition/information 3.1. Substance Substance type Name 2-Vinylpyridine (Main constituent) 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 First-aid measures after inhalation First-aid measures after skin contact	: Mono : In ca where : Remo respi : Wash : Imme prese	Product identifier (CAS No) 100-69-6 se of accident or if you feel unwell, see e possible). Move the affected person ove person to fresh air and keep comfor ration. Get immediate medical advice/a n with plenty of soap and water. Get im ediately flush eyes thoroughly with wate ent and easy to do. Continue rinsing. G	ek medical advic el away from th ortable for breat attention. Imediate medica er for at least 15 iet immediate m	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 e immediately (show the label e contaminated area. hing. If not breathing, give artificial al advice/attention. is minutes. Remove contact lenses, if edical advice/attention.
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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 su	bstance or mixture
Fire hazard	: Thermal decomposition generates: Carbon oxides. Nitrogen oxides.
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
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 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, includi	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. 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.

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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

9.1. Information on basic physical and	d chemical properties
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	: 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	: 10 mm Hg (at 44.5 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 105.14 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

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
No additio	onal information available
10.2.	Chemical stability
The produ	uct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

Keep away 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

OFOTION 40. D

: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.

2-Vinylpyridine (100-69-6)	
LD50 oral rat	100 mg/kg
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	300.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
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 consideratio	ns		
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an authorized incinerator equip	ped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance	ce with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.		
Department of Transportation (DOT)			
In accordance with DOT			
Transport document description	: UN3073 Vinylpyridines, stabilized, 6.1, II		
UN-No.(DOT)	: UN3073		
12/08/2016	EN (English US)	SDS ID: 3H3212M	5/8

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Proper Shipping Name (DOT)	: Vinylpyridines, stabilized
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison 3 - Flammable liquid 8 - Corrosive
Packing group (DOT)	: II - Medium Danger
Dangerous for the environment	: Yes
Marine pollutant	: Yes
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Special Provisions (49 CFR 172.102)	 IB1 - Authorized IBCs: Metal (31A, 31B and 31N). 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)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 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.
DOT Vessel Stowage Other	: 21 - Segregation same as for flammable liquids,40 - Stow "clear of living quarters",52 - Stow "separated from" acids
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3073
Proper Shipping Name (IMDG)	: VINYLPYRIDINES, STABILIZED
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 3073
Proper Shipping Name (IATA)	: Vinylpyridines, stabilized
Class (IATA)	: 6.1 - Toxic Substances

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Packing group (IATA)

: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

2-Vinylpyridine (100-69-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

2-Vinylpyridine (100-69-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

2-Vinylpyridine (100-69-6)

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 Japanese ENCS (Existing & New Chemical Substances) inventory 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) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on INSQ (Mexican national Inventory of Chemical Substances)

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:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitization Category 1
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

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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	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 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	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
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.