

Safety Data Sheet 4H3714P according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/25/2017 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 4-Methyl-1,3-oxazole-5-carbonitrile	
CAS No	: 1003-52-7	
Product code	: 4H37-1-4P	
Formula	: C5H4N2O	
Synonyms	: 5-Cyano-4-methyl-1,3-oxazole	
Other means of identification	: MFCD01111976	
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)		
Flam. Liq. 3H226 - FlammableAcute Tox. 4 (Oral)H302 - Harmful if sAcute Tox. 4 (Dermal)H312 - Harmful in ofAcute Tox. 4 (Inhalation)H332 - Harmful if inSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes serSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	wallowed contact with skin haled n irritation ious eye irritation	
Full lext of H-philases. See Section To		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	: GHS02 GHS07	
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	 H226 - Flammable liquid and vapor H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation 	
Precautionary statements (GHS-US)	 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area 	
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		P30 P30 P30 Skin P30 P30 P31 P32 P33 P33 P33 P33 P33 P36 P37 P40 P40 P40	 Wear protective gloves/protective clot 1+P312 - If swallowed: Call a POISON C 2+P352 - If on skin: Wash with plenty of s 3+P361+P353 - If on skin (or hair): Take with water/shower 4+P340 - If inhaled: Remove person to fr 5+P351+P338 - If in eyes: Rinse cautious es, if present and easy to do. Continue ri 2 - Call a POISON CENTER or doctor/ph 1 - Specific treatment (see supplemental 0 - Rinse mouth 2+P313 - If skin irritation occurs: Get med 7+P313 - If skin irritation persists: Get med 7+P313 - If eye irritation persists: Get med 7+P338 - In case of fire: Use dry sand, di 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 approximate of the second second	ENTER or docto soap and water off immediately a esh air and keep sly with water for nsing ysician if you fee first aid instruction dical advice/atter dical advice/atter dical advice/atter and wash it befor y chemical or all Keep container Keep cool	r/ physician if you feel unwell all contaminated clothing. Rinse o comfortable for breathing several minutes. Remove contact el unwell ons on this label) ntion ntion ore reuse cohol-resistant foam to extinguish tightly closed
2.3.	Other hazards				
No addit	tional information available				
2.4.	Unknown acute toxicity (GHS U	5)			
Not appl	licable				
SECTI	ON 3: Composition/information	ition on i	ngredients		
3.1.	Substance				
Substan	ce type	: Mon	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
4-Methy (Main cor	γl-1,3-oxazole-5-carbonitrile nstituent)		(CAS No) 1003-52-7	<= 100	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text	of H-phrases: see section 16				·
3.2.	Mixture				
Not appl	licable				
SECTI	ON 4: First aid measures				
4.1.	Description of first aid measures	6			
4. L.				modical advica	immediately (show the label
First-aid	measures general	whe	ase of accident or if you feel unwell, seek re possible). Move the affected personne	l away from the	contaminated area.
First-aid First-aid	measures after inhalation	whe : Rem resp	re possible). Move the affected personne love person to fresh air and keep comfor iration. Get immediate medical advice/at	I away from the table for breathin tention.	contaminated area. ng. If not breathing, give artificial
First-aid First-aid First-aid	measures after inhalation measures after skin contact	whe : Rem resp : Was	re possible). Move the affected personne nove person to fresh air and keep comfor iration. Get immediate medical advice/at h with plenty of soap and water. Get imm	I away from the table for breathin tention.	contaminated area. ng. If not breathing, give artificial advice/attention.
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First-aid First-aid First-aid First-aid	measures after inhalation measures after skin contact	whe : Rem resp : Was : Imm pres : Do N	re possible). Move the affected personne nove person to fresh air and keep comfor iration. Get immediate medical advice/at h with plenty of soap and water. Get imm	I away from the table for breathin tention. nediate medical a for at least 15 m t immediate med g by mouth to an	contaminated area. ng. If not breathing, give artificial advice/attention. ninutes. Remove contact lenses, if lical advice/attention.
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First-aid First-aid First-aid First-aid First-aid 4.2. Sympton 4.3. Treat syn SECTI 5.1. Suitable	measures after inhalation measures after skin contact measures after eye contact measures after ingestion Most important symptoms and e ms/injuries Indication of any immediate meet mptomatically. ON 5: Firefighting measure Extinguishing media extinguishing media	whe : Rem resp : Was : Imm pres : Do N mou ffects, both : The 2.2) lical attention S : Alco approx	re possible). Move the affected personne nove person to fresh air and keep comfor iration. Get immediate medical advice/ati h with plenty of soap and water. Get immediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Ge IOT induce vomiting. Never give anything th out with water. Get immediate medica acute and delayed most important known symptoms and eff and/or in section 11. on and special treatment needed hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	I away from the table for breathin tention. nediate medical a for at least 15 m t immediate medicate medicate g by mouth to an I advice/attention	contaminated area. ng. If not breathing, give artificial advice/attention. ninutes. Remove contact lenses, if lical advice/attention. nuconscious person. Rinse n. ed in the labelling (see section
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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 measures			

6.1. Personal precautions, protective equipment and emergency procedures
General measures
Exaculate unnecessary personnel. Ensure adequate air ventilation. Do not breathe das fumes

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 aut	thorities if product enters sewers or public waters.
6.3. Methods and material for contain	inment 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 storag	ie
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, inc	luding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep contents under inert gas.
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 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.

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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

OLOTION 3. Thysical and chemical	properties
9.1. Information on basic physical and	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	: 162 °C (@ 763 mm Hg)
Flash point	: 60 °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	: 1.12 g/ml (@ 25 °C)
Molecular mass	: 108.1 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

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 acids. Strong bases. Strong oxidizing agents. Strong reducing 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.

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SECTION 11: Toxicological information	tion
11.1. Information on toxicological effects	;
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
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

12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available
12.5.	Other adverse effects
No add	itional 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, III

- : UN1993
- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242

: G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
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)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
All components of this product are listed, or exc	cluded from listing, on the United States Environmental Protection Agency Toxic

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:

4-Methyl-1,3-oxazole-5-carbonitrile	CAS No 1003-52-7	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

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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 tex	t of	H-phra	ises:

	Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4	
	Acute Tox. 4 (Inhalation)		Acute toxicity (inhalation) Category 4	
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4	
	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	
	H302		Harmful if swallowed	
	H312		Harmful in contact with skin	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	H332		Harmful if inhaled	
	H335		May cause respiratory irritation	
	NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.		h prompt medical attention was pated or exposed to relatively high	
NFPA I	PA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.			
HMIS I	II Rating			
Health		3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given		
Flamm	ability	: 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)		
Physica	al	: 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.