

1-Methoxycyclohexa-1,4-diene, tech Safety Data Sheet 2407101 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/18/2016 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 1-Methoxycyclohexa-1,4-diene, tech
CAS No	: 2886-59-1
Product code	: 2407-1-01
Formula	: C7H10O
Synonyms	: 2,5-Dihydroanisole; 2,5-Dihydromethoxybenzene; 1,4-Cyclohexadien-1-yl methyl ester
Other means of identification	: MFCD00001536
1.2. Relevant identified uses of the sub	ostance 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	y 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>om</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	n
2.1. Classification of the substance or	mixture
Flam. Liq. 3H226 -Flammable liquid and vaSkin Irrit. 2H315 -Causes skin irritationEye Irrit. 2AH319 -Causes serious eye irrit.STOT SE 3H335 -May cause respiratory in	tation
Flam. Liq. 3 H226 - Flammable liquid and va Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit. STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 2.2. Label elements	tation
Flam. Liq. 3 H226 - Flammable liquid and vaskin Irrit. 2 Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit. STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	tation
Flam. Liq. 3 H226 - Flammable liquid and vaskin Irrit. 2 Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit. STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	tation rritation
Flam. Liq. 3 H226 - Flammable liquid and va Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	tation rritation : (K_{SO2}) (K_{SO7})
Eye Irrit. 2A H319 - Causes serious eye irrit. STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16	tation rritation
Flam. Liq. 3 H226 - Flammable liquid and va Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 tation rritation : value of the second second

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		 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant 			
2.3.	Other hazards				
No addi	tional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app	licable				
SECT	ON 3: Composition/information	on in	aredients		
3.1.	Substance				
Substan		Mono	-constituent		
Name			Product identifier	%	Classification (GHS-US)
	oxycyclohexa-1,4-diene, tech		(CAS No) 2886-59-1	7 0 <= 100	Classification (GHS-US) Flam. Lig. 3, H226
	nstituent)			L= 100	Skin Irit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text	of H-phrases: see section 16				
3.2.	Mixture				
Not app	licable				
SECT	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general :		se of accident or if you feel unwell, seek a possible). Move the affected personnel		
First-aid	measures after inhalation :		ove person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathing	g. If not breathing, give artificial
First-aid	measures after skin contact :	Wash	with plenty of soap and water. Get med	cal advice/atten	tion.
	-	prese	diately flush eyes thoroughly with water in and easy to do. Continue rinsing. Get	medical advice/	attention.
First-aid	measures after ingestion :		OT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
4.2.	Most important symptoms and effects	, both a	acute and delayed		
Symptor	ns/injuries :		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
4.3.	Indication of any immediate medical at	ttentio	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ON 5: Firefighting measures				
5.1.	Extinguishing media				
			ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the subst	tance o	or mixture		
Fire haz			nal decomposition generates: Carbon ox	des.	
		Risk o	of explosion if heated under confinement iners. May form flammable/explosive vap	Use water spra	y or fog for cooling exposed
5.3.	Advice for firefighters				
	· ·	In cas	se of fire: Evacuate area. Fight fire remot	ely due to the ris	sk of explosion.
-	-	Wear	gas tight chemically protective clothing i atus. For further information refer to sec	n combination w	ith self contained breathing

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SECTION 6: Accidental release mage				
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6.1. Personal precautions, protective equ				
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 authoritie	es if product enters sewers or public waters.			
6.3. Methods and material for containment	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 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

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	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	: 148 - 150 °C
Flash point	: 36 °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	: 0.94 g/ml (@ 25 °C)
Molecular mass	: 110.15 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	: 1.4805 (@ 20 °C)
SECTION 10: Stability and reactivit	iy .
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 fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case c
SECTION 11: Toxicological information	ation
11.1. Information on toxicological effec	
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

SECTIO	DN 12: Ecological information		
12.1.	Toxicity		
No additio	onal information available		
12.2.	Persistence and degradability		
No additio	onal information available		
12.3.	Bioaccumulative potential		
No additio	onal information available		
12.4.	Mobility in soil		
No additio	onal 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

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:

1-Methoxycyclohexa-1,4-diene, tech	CAS No 2886-59-1	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

1-Methoxycyclohexa-1,4-diene, tech (2886-59-1) Listed on the Korean ECL (Existing Chemicals List)

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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

	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
	nealth hazard ire hazard	 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 attention is given.
NFPA ı	reactivity	 ambient conditions. : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
C		 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)
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.