

Safety Data Sheet 11001840 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/23/2019 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: Hexadecane-D34 >99.0 Atom % D		
CAS No	: 15716-08-2		
Product code	: 1100-1-840		
Formula	: C16H34		
Synonyms	: Hexadecane-		
	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,7 Perdeuterohexadecane	10,10,11,11,12,12,13,13,14,14,15,15,16,16,7	16-d34 /
Other means of identification	: MFCD00144893		
1.2. Relevant identified uses of the su	bstance or mixture and uses advised ag	ainst	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development		
1.3. Details of the supplier of the safet	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	om		
1.4. Emergency telephone number	/		
Emergency number	: (844) 523-4086 (3E Company - Acco	bunt 10069)	
SECTION 2: Hazard(s) identificatio 2.1. Classification of the substance or			
Classification (GHS-US)			
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irriSTOT SE 3H335 - May cause respiratoryAsp. Tox. 1H304 - May be fatal if swalloweFull text of H-phrases: see section 16	rritation		
2.2. Label elements			
GHS-US labeling	•		
Hazard pictograms (GHS-US)	GHS07 GHS08		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H304 - May be fatal if swallowed and H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation		
Precautionary statements (GHS-US)	, , ,		
	P301+P310 - If swallowed: Immedia P302+P352 - If on skin: Wash with p P304+P340 - If inhaled: Remove per P305+P351+P338 - If in eyes: Rinse lenses, if present and easy to do. Co P312 - Call a POISON CENTER or co	andling I-ventilated area ctive clothing/eye protection/face protection tely call a poison center/doctor/ lenty of soap and water son to fresh air and keep comfortable for bre cautiously with water for several minutes. R ntinue rinsing	

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	P337+P313 - If eye P362+P364 - Take o P403+P233 - Store P405 - Store locked	irritation occurs: Get n irritation persists: Get off contaminated clothin n a well-ventilated pla up ontents/container to ar	medical advice/ ing and wash it l ice. Keep contai	attention before reuse ner tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS	US)			
Not applicable				
SECTION 3: Composition/infor	mation on ingredients			
3.1. Substance	5			
Substance type	: Mono-constituent			
Name	Product ide	atifiar	%	Classification (GHS-US)
Hexadecane-D34 >99.0 Atom % D (Main constituent)	(CAS No) 15716		<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				Asp. Tox. 1, H304
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 unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. 			
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention. 			
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.			
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			
4.2. Most important symptoms a	d effects, both acute and dela	ayed		
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	nedical attention and special	treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measu	ires			
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 substance or mixture			
Fire hazard		ion generates: Carbor	n oxides.	
Explosion hazard	: Risk of explosion if h containers.	neated under confinem	nent. Use water	spray or fog for cooling exposed
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				on with self contained breathing osure controls/personal protection".
SECTION 6: Accidental release				
	tive equipment and emergend		odoguota alarra	nation Do not breath a dust Do not
General measures	: Evacuate unnecessa breathe gas, fumes,	• •	auequate air ve	entilation. Do not breathe dust. Do not

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6.1.1.	S.1.1. For non-emergency personnel			
Emerge	ncy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2.	For emergency responders			
Protectiv	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2.	Environmental precautions			
Avoid re	lease to the environment. Notify authorit	ties if product enters sewers or public waters.		
6.3.	Methods and material for containme	ent and cleaning up		
For cont	ainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up		Minimize generation of dust. 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 addi	tional information available			
SECT	ON 7: Handling and storage			
7.1.	Precautions for safe handling			
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 dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.		
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.		
Incompatible materials		: Refer to Section 10 on Incompatible Materials.		
Storage area		Store in dry, cool, well-ventilated area.		
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Flash point 01/23/2019

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 Information on basic physical and chemical properties 9.1. Physical state : Liquid : Low melting solid. Appearance Color : No data available Odor : No data available Odor threshold : No data available pН : No data available : 18 °C Melting point : No data available Freezing point Boiling point : 287 °C

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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	: 0.887 g/ml (@ 25 °C)
Molecular mass	: 260.6507 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

: 1.43 (@ 20 °C)

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 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	: Not classified
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	: May be fatal if swallowed and enters airways.

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SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No addi	itional information available
12.4.	Mobility in soil
No addi	itional information available
12.5.	Other adverse effects
No addi	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.		

Department of Transportation (DOT)

SECTION 14: Transport information

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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:

Hexadecane-D34 >99.0 Atom % D	CAS No 15716-08-2	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

Hexadecane-D34 >99.0 Atom % D (15716-08-2)

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

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SECTION 16: Other information

Full text of H-phrases:

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Asp. Tox. 1		Aspiration hazard Category 1	
Eye Irrit. 24	A	Serious eye damage/eye irritation Category 2A	
Skin Irrit. 2		Skin corrosion/irritation Category 2	
STOT SE 3	3	Specific target organ toxicity (single exposure) Category 3	
H304		May be fatal if swallowed and enters airways	
H315		Causes skin irritation	
H319		Causes serious eye irritation	
H335		May cause respiratory irritation	
NFPA fire hazard NFPA reactivity			
HMIS III Rating			
Health	Ith : 2 Moderate Hazard - Temporary or minor injury may occur		
Flammability		 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) 	
Physical	: 0 Minimal Hazard - Ma	: 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.