

Safety Data Sheet 41481Y5 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/17/2019 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: Heptane-1,7-diamine, N-E	oc protected	
CAS No	: 99733-18-3		
Product code	: 4148-1-Y5		
Formula	: C12H26N2O2		
Synonyms	: tert-Butyl (7-aminohept-1-	yl)carbamate; 1,7-Diaminoheptane, N-Boc protected	d
Other means of identification	: MFCD02094498		
.2. Relevant identified uses of the s	substance or mixture and uses a	dvised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substance Scientific research and de		
I.3. Details of the supplier of the saf	ety 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 - <u>www.synquestlabs</u>			
I.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Com	any - Account 10069)	
SECTION 2: Hazard(s) identificati	ion		
.1. Classification of the substance	or mixture		
Classification (GHS-US)			
Skin Irrit. 2 H315 - Causes skin in Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16	us eye irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H302 - Harmful if swallow H315 - Causes skin irritat H319 - Causes serious ey H335 - May cause respira	on e irritation	
Precautionary statements (GHS-US)	P271 - Use only outdoors P280 - Wear protective gl P301+P312 - If swallowed P302+P352 - If on skin: V P304+P340 - If inhaled: F P305+P351+P338 - If in e lenses, if present and eas P312 - Call a POISON CE P321 - Specific treatment P330 - Rinse mouth	hly after handling r smoke when using this product or in a well-ventilated area oves/protective clothing/eye protection/face protectio : Call a POISON CENTER or doctor/ physician if yo /ash with plenty of soap and water emove person to fresh air and keep comfortable for yes: Rinse cautiously with water for several minutes	ou feel unwell breathing s. Remove contact
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	P3 P4 P4	P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant		
2.3. Othe	r hazards			
No additional ir	formation available			
2.4. Unkr	nown acute toxicity (GHS US)			
Not applicable				
SECTION 3	: Composition/information on	ingredients		
	stance			
Substance type	e : Mo	ono-constituent		
Name		Product identifier	%	Classification (GHS-US)
	amine, N-Boc protected	(CAS No) 99733-18-3	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Full toxt of H pl	prosper son soction 16			STOT SE 3, H335
B.2. Mixtu	hrases: see section 16			
Not applicable				
	: First aid measures			
	ription of first aid measures			
First-aid measu	ires general : In	case of accident or if you feel unwell, seek		
irst-aid measu	res after inhalation : Re	 where possible). Move the affected personnel away from the contaminated area. Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention. 		
First-aid measu		, ash with plenty of soap and water. Get imm		advice/attention.
irst-aid measu		 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 measu		NOT induce vomiting. Never give anything buth out with water. Get immediate medical		
4.2. Most	important symptoms and effects, bo	th acute and delayed		
Symptoms/inju		e most important known symptoms and effe 2) and/or in section 11.	ects are describ	ed in the labelling (see section
I.3. Indic	ation of any immediate medical atten	tion and special treatment needed		
Freat symptom				
SECTION 5	: Firefighting measures			
5.1. Extir Suitable exting	uishing media	cohol resistant foam. Carbon dioxide. Dry p	owder Water o	orav I lse extinguishing media
Salable exilingi		propriate for surrounding fire.	אינטנו. אימוכו א	oray. Ose exanguishing metala
5.2. Spec	ial hazards arising from the substan	e or mixture		
Fire hazard	Special hazards arising from the substance or mixture nazard : Thermal decomposition generates: Carbon oxides. Nitrogen oxides.			
	ce for firefighters	···· , ···· 3-·····		
5.3. Advi	•	case of fire: Evacuate area.		
Protection durin	ng firefighting : W	ear gas tight chemically protective clothing i paratus. For further information refer to sec		
SECTION 6	: Accidental release measures	\$		
6.1. Pers	onal precautions, protective equipme	nt and emergency procedures		
General measu	ires : Ev	acuate unnecessary personnel. Ensure ade	equate air ventil	ation. Do not breathe dust.
6.1.1. For r	non-emergency personnel			

Emergency procedures

: Only qualified personnel equipped with suitable protective equipment may intervene.

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6.1.2.	For emergency responders	
Protective	re 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 rel	lease to the environment. Notify aut	horities if product enters sewers or public waters.
6.3.	Methods and material for contai	inment and cleaning up
For conta	ainment	: Stop leak if safe to do so.
Methods	for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other info	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.		
0.4.	Reference to other sections	
	ional information available	
No additi	ional information available	e
No additi		e
No additi SECTIO 7.1.	ional information available ON 7: Handling and storage	e : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
No additi SECTIO 7.1. Precautic	ional information available ON 7: Handling and storag 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, mist, spray. Wear personal protective
No additi SECTIO 7.1. Precautio	ional information available ON 7: Handling and storage Precautions for safe handling ons 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, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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.
No additi SECTIO 7.1. Precautio Hygiene 7.2.	ional information available ON 7: Handling and storage Precautions for safe handling ons for safe handling measures	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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.
No additi SECTIO 7.1. Precautio Hygiene 7.2. Technica	ional information available ON 7: Handling and storage Precautions for safe handling ons for safe handling measures Conditions for safe storage, incl	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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.
No additi SECTIO 7.1. Precautio Hygiene 7.2. Technica Storage o	ional information available ON 7: Handling and storage Precautions for safe handling ons for safe handling measures Conditions for safe storage, incl al measures	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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. Iuding any incompatibilities Comply with applicable regulations.
No additi SECTIO 7.1. Precautic Hygiene 7.2. Technica Storage o Incompat	ional information available ON 7: Handling and storage Precautions for safe handling ons for safe handling measures Conditions for safe storage, incl al measures conditions	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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. Iuding any incompatibilities Comply with applicable regulations. Keep container closed when not in use.

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 o	chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 113 - 114 °C
Freezing point	: No data available
Boiling point	: 96 - 100 °C (@ 0.1 mm Hg)
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

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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
Molecular mass	: 230.347 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	y 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.

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	: Oral: Harmful if swallowed.			
Skin corrosion/irritation	: Causes skin irritation.			
Serious eve damage/irritation	: Causes serious eve 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

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available

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12.3.	Bioaccumulative potential		
No addi	tional information available		
12.4.	Mobility in soil		
	tional information available		
No addi			
12.5.	Other adverse effects		
No addi	tional information available		

SECTION 13: Disposal considerations

Waste treatment methods 13.1.

Waste treatment methods

Waste disposal recommendations Additional information

: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

- : Dispose of contents/container in accordance with licensed collector's sorting instructions. : Recycle the material as far as possible.
- **SECTION 14: Transport information**

Department of Transportation (DOT)

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:

Heptane-1,7-diamine, N-Boc protected	CAS No 99733-18-3	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

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

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Full text of H-phrases:				
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4	
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A	
	Skin Irrit. 2		Skin corrosion/irritation Category 2	
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
	H302		Harmful if swallowed	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	H335		May cause respiratory irritation	
NFPA f	nealth hazard ire hazard reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 0 - Materials that will not burn. 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 :		: 0 Minimal Hazard - Mate	0 Minimal Hazard - Materials that will not burn	
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.