

Safety Data Sheet 4156125 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification				
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1.1. Identification	- · · ·			
Product form	: Substance			
Substance name	: tert-Butyl N-{2-[2-(2-aminoethoxy)ethoxy]ethyl}carbamate			
CAS No	: 153086-78-3			
Product code	: 4156-1-25	: 4156-1-25		
Formula	: C11H24N2O4			
Other means of identification	: MFCD03788155			
.2. Relevant identified uses of the s	ubstance 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 safe	ety data sheet			
SynQuest Laboratories, Inc.				
P.O. Box 309 Alachua, FL 32615 - United States of Americ F (386) 462-0788 - F (386) 462-7097				
nfo@synquestlabs.com - www.synquestlabs	.com			
.4. Emergency telephone number	: (844) 523-4086 (3E Comp	any - Account 10069)		
	. (644) 525-4060 (SE Comp	any - Account 10009)		
SECTION 2: Hazard(s) identification	on			
.1. Classification of the substance of	or mixture			
Classification (GHS-US)				
Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 H H				
2.2. Label elements GHS-US labeling				
Hazard pictograms (GHS-US)	GHS05 GHS0			
Signal word (GHS-US)	: Danger			
lazard statements (GHS-US)	: H314 - Causes severe ski H335 - May cause respira			
Precautionary statements (GHS-US)	P301+P330+P331 - If swa P303+P361+P353 - If on s skin with water/shower P304+P340 - If inhaled: R P305+P351+P338 - If in e lenses, if present and easy P310 - Immediately call a P321 - Specific treatment P363 - Wash contaminate P403+P233 - Store in a w P405 - Store locked up	hly after handling or in a well-ventilated area ves/protective clothing/eye protection/face protectio llowed: rinse mouth. Do NOT induce vomiting kin (or hair): Take off immediately all contaminated emove person to fresh air and keep comfortable for ves: Rinse cautiously with water for several minutes to do. Continue rinsing POISON CENTER or doctor/ physician see supplemental first aid instructions on this label)	clothing. Rinse breathing . Remove contact	
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2.3. Other hazards					
No additional information available	additional information available				
2.4. Unknown acute toxicity (GHS US)					
Not applicable	Not applicable				
SECTION 3: Composition/information	on on in	gredients			
3.1. Substance					
Substance type	: Mono	-constituent			
Name		Product identifier	%	Classification (GHS-US)	
tert-Butyl N-{2-[2-(2-aminoethoxy)ethoxy]ethyl}carba (Main constituent)	mate	(CAS No) 153086-78-3	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	
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		e of accident or if you feel unwell, seek r possible). Move the affected personnel			
First-aid measures after inhalation		ove person to fresh air and keep comforta ation. Get immediate medical advice/atte		g. If not breathing, give artificial	
First-aid measures after skin contact		with plenty of soap and water. Remove cal advice/attention.	contaminated c	lothing and shoes. Get immediate	
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.					
t-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 and effe	cts. both	acute and delayed			
Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.					
Symptoms/injuries after inhalation : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.					
4.3. Indication of any immediate medicate					
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media	
5.2. Special hazards arising from the su	ubstance o	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.					
5.3. Advice for firefighters					
efighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.					
Protection during firefighting		gas tight chemically protective clothing in atus. For further information refer to sect			
SECTION 6: Accidental release measures					
6.1. Personal precautions, protective e		and emergency procedures			
General measures	: Evacı	uate unnecessary personnel. Ensure ade or spray.	quate air ventila	ation. Do not breathe gas, fumes,	
6.1.1. For non-emergency personnel					
Emergency procedures	: Only	qualified personnel equipped with suitable	e protective equ	upment may intervene.	

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6.1.2.	For emergency responders	
Protecti	ve equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerge	ncy procedures	Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions	
Avoid re	lease to the environment. Notify authorit	s if product enters sewers or public waters.
6.3.	Methods and material for containme	and cleaning up
For con	tainment	Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Method	s 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 in	formation	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	
Precaut	ions 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.
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	any incompatibilities
Technic	al measures	Comply with applicable regulations.
Storage	conditions	Keep container closed when not in use. Air sensitive. Keep contents under inert gas.
Incompa	atible 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**

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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	I 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

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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
Molecular mass	: 248.32 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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
Acids. A	Acid chlorides. Acid anhydrides. Carbon dioxide. Strong oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
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
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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SECTI	ON 12: Ecological information			
12.1.	Toxicity			
No addit	No additional information available			
12.2.	Persistence and degradability			
No addit	tional information available			
12.3.	Bioaccumulative potential			
No addit	No additional information available			
12.4.	Mobility in soil			
No addit	tional information available			
12.5.	Other adverse effects			
No addit	No additional 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)

Packing group (DOT)

DOT Symbols

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

- : UN2735 Amines, liquid, corrosive, n.o.s., 8, III
- : UN2735
- : Amines, liquid, corrosive, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : III Minor Danger
- DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102)

- : 203 : 241
- : G Identifies PSN requiring a technical name
- : 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).

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Quantity Limitations Passenger aircraft/rail : 5 L (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75) DOT Vessel Stowage Location

on : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
JN-No. (IMDG)	: 2735
Proper Shipping Name (IMDG)	: AMINES, LIQUID, CORROSIVE, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
JN-No. (IATA)	: 2735
Proper Shipping Name (IATA)	: Amines, liquid, corrosive, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

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:

tert-Butyl N-{2-[2-(2-aminoethoxy)ethoxy]ethyl}carbamate	CAS No 153086-78-3	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

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

Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
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	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 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.