

2-(tert-Butylamino)ethanol Safety Data Sheet 415612R according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/25/2020 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 2-(tert-Butylamino)ethanol	
CAS No	: 4620-70-6	
Product code	: 4156-1-2R	
Formula	: C6H15NO	
Other means of identification	: MFCD00002837	
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.co	<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	nixture	
Classification (GHS-US)		
Acute Tox. 3 (Dermal)H311 - Toxic in contaSkin Corr. 1BH314 - Causes severEye Dam. 1H318 - Causes seriouSTOT SE 3H335 - May cause resFull text of H-phrases: see section 16	e skin burns and eye damage is eye damage	
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	CHS05 CHS06 CHS07	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	<ul> <li>H302 - Harmful if swallowed</li> <li>H311 - Toxic in contact with skin</li> <li>H314 - Causes severe skin burns and eye damage</li> <li>H335 - May cause respiratory irritation</li> </ul>	
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe dust, fumes, mist, spray, vapors</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwe</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Ri skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove c lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a POISON CENTER or doctor/ physician</li> </ul>	inse
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		P330 P361 P363 P403 P405	<ul> <li>Specific treatment (see supplemental f</li> <li>Rinse mouth</li> <li>Take off immediately all contaminated</li> <li>Wash contaminated clothing before reative store in a well-ventilated place.</li> <li>Store locked up</li> <li>Dispose of contents/container to an apple store store</li></ul>	clothing use Keep container	tightly closed
2.3.	Other hazards				
No additi	ional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appli	icable				
SECTI	ON 3: Composition/information	on in	gredients		
3.1.	Substance				
Substand	ce type	Mono	constituent		
Name			Product identifier	%	Classification (GHS-US)
2-(tert-B (Main cor	Butylamino)ethanol nstituent)		(CAS No) 4620-70-6	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
<sup>-</sup> ull text	of H-phrases: see section 16				
3.2.	Mixture				
lot appli					
	ON 4: First aid measures				
.1.	Description of first aid measures		· · · · · · · · · · · · · · · · · · ·		
	5	where	se of accident or if you feel unwell, seek possible). Move the affected personnel	away from the o	contaminated area.
		respi	ove person to fresh air and keep comforta ration. Get immediate medical advice/atte	ention.	
		medi	with plenty of soap and water. Remove cal advice/attention.		-
		prese	diately flush eyes thoroughly with water ant and easy to do. Continue rinsing. Get	immediate med	ical advice/attention.
irst-aid	measures after ingestion :		OT induce vomiting. Never give anything n out with water. Get immediate medical		
.2.	Most important symptoms and effects		· · · · · · · · · · · · · · · · · · ·		
sympton	ns/injuries :		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
Sympton	ns/injuries after inhalation :		rial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,
<mark>4.3.</mark> Freat syr	Indication of any immediate medical a mptomatically.	ttentio	n and special treatment needed		
SECTI	ON 5: Firefighting measures				
i.1.	Extinguishing media				
Suitable	extinguishing media :		ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the subs	tance	or mixture		
ire haza	ard :	Therr	nal decomposition generates: Carbon ox	ides. Nitrogen o	xides.
.3.	Advice for firefighters				
-	0	Wear	se of fire: Evacuate area. gas tight chemically protective clothing i atus. For further information refer to sec		
SECTI	ON 6: Accidental release measu	ires			
6.1.	Personal precautions, protective equi	pment	and emergency procedures		
Seneral	measures :		uate unnecessary personnel. Ensure ade he gas, fumes, vapor or spray.	equate air ventila	ation. Do not breathe dust. Do not
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6.1.1.	For non-emergency personnel	
Emerge	ency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protect	ive 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 r	elease to the environment. Notify author	rities if product enters sewers or public waters.
6.3.	Methods and material for contain	ment and cleaning up

For containment	: 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 additional information available

SECTION 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, including	g 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.

#### **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 chemical properties Physical state : Solid Appearance : Low melting solid. Color : No data available Odar : No data available

Flash point	: 86 °C
Boiling point	: 176 - 177 °C
Freezing point	: No data available
Melting point	: 40 - 43 °C
рН	: No data available
Odor threshold	: No data available
Odor	: No data available

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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	: 0.867 g/ml (@ 20 °C)
Molecular mass	: 117.1894 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 add	itional information available
SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	acids. Strong oxidizing agents.
10.6.	Hazardous decomposition products
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

g fire, see Section 5.

## **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.

2-(tert-Butylamino)ethanol (4620-70-6)	
LD50 oral rat	1620 mg/kg
LD50 dermal rabbit	635 mg/kg
ATE US (oral)	1620.000 mg/kg body weight
ATE US (dermal)	635.000 mg/kg body weight
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.

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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.

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

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

- : UN2923 Corrosive solids, toxic, n.o.s., 8, III
- : UN2923
- : Corrosive solids, toxic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive 6.1 - Poison



- : III Minor Danger
  - : 213
  - : 240
  - : G Identifies PSN requiring a technical name

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

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	<ul> <li>plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rai (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (4 CFR 175.75)	9 : 100 kg
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters",95 - Stow "separated from" foodstuffs
Other information	: No supplementary information available.
<b>TDG</b> No additional information available	
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	<ul> <li>2923</li> <li>CORROSIVE SOLID, TOXIC, N.O.S.</li> <li>8 - Corrosive substances</li> <li>III - substances presenting low danger</li> </ul>
Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)	<ul> <li>2923</li> <li>Corrosive solid, toxic, n.o.s.</li> <li>8 - Corrosives</li> <li>III - Minor Danger</li> </ul>

## 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:

2-(tert-Butylamino)ethanol CAS No 4620-70-6	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

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#### **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:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
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
H302	Harmful if swallowed
H311	Toxic in contact with skin
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	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 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	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)
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)	

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