

(R)-(+)-tert-Butyl sulfinamide Safety Data Sheet P311A51 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/28/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: (R)-(+)-tert-Butyl sulfinamide
CAS No	: 196929-78-9
Product code	: P311-A-51
Formula	: C4H11NOS
Synonyms	: (R)-(+)-2-Methylpropane-2-sulfinamide
Other means of identification	: MFCD05861479
1.2. Relevant identified uses of the	e substance 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 same	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ame T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestla 1.4. Emergency telephone number	<u>bs.com</u>
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirate Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS07 : Warning
Hazard statements (GHS-US)	
	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	H319 - Causes serious eye irritation

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o additional information available			
4. Unknown acute toxicity (GHS US)			
ot applicable			
ECTION 3: Composition/information	on on ingredients		
1. Substance			
ubstance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
(R)-(+)-tert-Butyl sulfinamide (Main constituent)	(CAS No) 196929-78-9	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16			•
2. Mixture			
ot applicable			
ECTION 4: First aid measures			
1. Description of first aid measures			
irst-aid measures general	: In case of accident or if you feel unv where possible). Move the affected		
irst-aid measures after inhalation	: Remove person to fresh air and kee respiration. Get medical advice/atter		ing. If not breathing, give artificial
irst-aid measures after skin contact	: Wash with plenty of soap and water		
irst-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 medical advice/attention.		
irst-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth out with water. Get medical a		an unconscious person. Rinse
2. Most important symptoms and effe	cts, both acute and delayed		
ymptoms/injuries	: The most important known symptom 2.2) and/or in section 11.	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.	
3. Indication of any immediate medica	al attention and special treatment need	led	
reat symptomatically.			
ECTION 5: Firefighting measures			
1. Extinguishing media			
uitable extinguishing media	: Alcohol resistant foam. Carbon diox appropriate for surrounding fire.	de. Dry powder. Water	spray. Use extinguishing media
2. Special hazards arising from the su	ibstance or mixture		
ire hazard	: Thermal decomposition generates:	Carbon oxides. Nitrogen	oxides. Sulfur oxides.
3. Advice for firefighters			
irefighting instructions	: In case of fire: Evacuate area.		
rotection during firefighting	: Wear gas tight chemically protective apparatus. For further information re		
ECTION 6: Accidental release mea			
	uipment and emergency procedures	· · · ·	
eneral measures	: Evacuate unnecessary personnel. E	nsure adequate air vent	tilation. Do not breathe dust.
1.1. For non-emergency personnel			
mergency procedures	: Only qualified personnel equipped v	ith suitable protective e	quipment may intervene.
1.2. For emergency responders			
	: Do not attempt to take action withou refer to section 8: "Exposure control		ipment. For further information

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up			
Stop leak if safe to do so.			
Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.			
For disposal of solid materials or residues refer to section 13 : "Disposal considerations".			
No additional information available			
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.			
ny incompatibilities			
Comply with applicable regulations.			
Keep container closed when not in use.			

Storage conditions	. Neep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

: 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.
: Protective gloves. 29 CFR 1910.138: Hand Protection.
: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
: Wear suitable protective clothing.
: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemica	al properties	
	• •	
9.1. Information on basic physical an	d chemical properties	
Physical state	: Solid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: 103 - 107 °C	
Freezing point	: No data available	
Boiling point	: No data available	
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	
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	

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Molecular mass	: 121.20 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

10.1.	ION 10: Stability and reactivity
	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 add	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
C+++++++++	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	: Not classified

SECTI	ON 12: Ecological information
40.4	The state of the s
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	ations
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 informat	ion

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 exception.			
(R)-(+)-tert-Butyl sulfinamide	CAS No 196929-78-9	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 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
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is 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.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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.