

Safety Data Sheet 3020

Section 1: Product and Company Identification

Absolute Accuracy

4591 S Wayside Dr Houston, TX 77087 (832) 571-2387

Product Code: 3020 Part Number: 3020 Synonyms:

Recommended Use: Usage Restrictions:

Section 2: Hazards Identification



Hazard Classification:

Gases Under Pressure

Hazard Statements:

Contains gas under pressure; may explode if heated Toxic to aquatic life
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Storage:

Protect from sunlight. Store in well-ventilated place.

Section 3: Composition/Information on Ingredients

		CAS#	Concentration		
ſ	#ortoButyAMercaptan	75-66-1	15 ppm		page 1 of 7
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	Chemical Substance	Chemical Family	Trade Names
Tert-Butyl Mercaptan	2-Methyl 2-Propanethiol	Thiols	2-methyl-2-propanethiol; tert-butanethiol; tert- butythiol; 1,1-dimethylethanethiol; 2-
			isobutanethiol; 2-propanethiol, 2 methyl-
Nitrogen	NITROGEN, COMPRESSED GAS	Inorganic gases	DIATOMIC NITROGEN; DINITROGEN; NITROGEN; NITROGEN-14; NITROGEN GAS; UN 1066; N2

Section 4: First Aid Measures

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Tert- Butyl Mercapt an	Remove contaminated clothing. Wash with soap and lots of water. Get medical attention, if needed.	Flush with large amounts of water or saline. Get medical attention.	Never make unconscious person vomit or drink fluids. Give sodium bicarbonate solution. When vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately.	Remove to fresh air. Use a bag valve mask or similar device to perform artificial respiration if needed.	For ingestion, consider gastric lavage.
Nitrogen	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

Section 5: Fire Fighting Measures

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Tert- Butyl Mercapt an	Regular dry chemical, carbon dioxide, water, regular foam, alcohol resistant foam. Large fires: use regular foam or flood with fine water spray.	Not available	 Not available Keep unnecessary people away, isolate hazard area and deny entry. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Stay upwind and keep out of low areas. Not available Not available
Nitrogen	Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat.	Non-flammable	Respiratory protection may be needed for frequent or heavy exposure.

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Section 6: Accidental Release Measures

	Personal Precautions	Environmental Precautions	Methods for Containment		
Tert- Butyl Mercapta n	Avoid heat, flames, sparks, and other sources of ignition.	Small: Collect spilled material in appropriate container for disposal. large: dike for later disposal.	Small: Collect spilled material in appropriate container for disposal. large: dike for later disposal.		
Nitrogen	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	No significant effects from contamination expected.	Stop leak if possible without personal risk.		

	Methods for Cleanup	Other Information
Tert-Butyl Mercaptan	Stop leak if possible without personal risk. Reduce vapors with water spray. For small spills, absorb with sand or other noncombustible material.	Not available
Nitrogen	N/A	N/A

Section 7: Handling and Storage

	Handling	Storage
Tert-Butyl Mercaptan	Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Store only where temperature will not exceed 125F (52C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.	Do not get liquid in eyes, on skin, or clothing. Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Open valve slowly. Close cylinder valve after each use; keep closed even when empty. If valve is hard to open, discontinue use and contact your supplier.
Nitrogen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

Section 8: Exposure Controls/Personal Protection

	Exposure Guidelines
Tert-Butyl Mercaptan	No occupational exposure limits established.
Nitrogen	NITROGEN, COMPRESSED GAS:
	NITROGEN: ACGIH (simple asphyxiant)

Engineering Controls

Handle only in fully enclosed systems.

	Eye Protection	Skin Protection	Respiratory Protection
Tert-Butyl Mercaptan	Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate chemical resistant clothing	Not available
Nitrogen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

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Section 9: Physical and Chemical Properties

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Tert- Butyl Merca ptan	Liquid	Colorless	Colorless		Liquid	Skunk-like odor	Not available
Nitrog en	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless

	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Tert- Butyl Merca ptan	< -20 deg F	IB	Not available	Not available	Not available	Not available
Nitrog en	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable

	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosit y
Tert - But yl Mer capt an	147 F	34 F	181 mm Hg at 25 deg C	3.1 (Air=1)	.8002	Slightly soluble	Not availa ble	Not available	Not available	Not available
Nitr oge n	-321 F (- 196 C)	-346 F (- 210 C)	760 mmHg @ -196 C	0.967 (Air=1)	Not applicable	1.6% @ 20 C	Not applic able	Not available	Not applicable	0.01787 cP @ 27 C

	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
Tert- Butyl Merca ptan	90.18	(CH3)3CSH3CSH	Not available	Not available	Not available	Not available	Soluble: alcohol, ether, liquid hydrogen sulfide
Nitrog en	28.0134	N2	1.2506 g/L	Not available	100%	1	Soluble: Liquid ammonia

Section 10: Stability and Reactivity

	Stability	Conditions to Avoid	Incompatible Materials
Tert-Butyl Mercaptan	Stable at normal temperatures and pressure	Stable at normal temperatures and pressure	Acids, oxidizing materials
Nitrogen	Stable at normal temperatures and	Stable at normal temperatures and	Metals, oxidizing materials
	pressure.	pressure.	

	Hazardous Decomposition Products	Possibility of Hazardous Reactions
Tert-Butyl Mercaptan	Thermal decomposition products: hydrogen sulfide, oxides of sulfur, carbon	Will not polymerize
Nitrogen	Oxides of nitrogen	Will not polymerize.

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Section 11: Toxicology Information

Acute Effects

	Oral LD50	Dermal LD50	Inhalation
Tert-Butyl Mercapta n	4729 mg/kg oral-rat	Not available	Irritation, lack of sense of smell, nausea, vomiting, diarrhea, difficult breathing, headache, symptoms of drunkenness, bluish skin color, lung congestion, kidney damage, convulsions, coma
Nitrogen	Not available	Not available	Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma

	Eye Irritation	Skin Irritation	Sensitization
Tert-	Not available	Irritation	Skin sensitisation, Category 1; H317:
Butyl			May cause an allergic skin reaction.
Mercapt			
an			
Nitroge	Contact with rapidly expanding gas may	No information on significant adverse effects	Difficulty breathing
n	cause burns or frostbite		

Chronic Effects

	Carcinogenicity	Mutagenicity	Reproductive Effects	Develop mental Effects
Tert- Butyl Mercapt an	Not available	Not Available	Not Available	No data
Nitrogen	Not hazardous	Not available	Not available	No data

Section 12: Ecological Information

Fate and Transport

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Tert- Butyl Merca ptan	Fish toxicity: not available Invertibrate toxicity: not available Algal toxicity: not available Phyto toxicity: not available Other toxicity: not available	Not available	Not available	Not available
Nitrog en	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

Section 13: Disposal Considerations

Tert-Butyl Mercaptan	Subject to disposal regulations :U.S. EPA 40 CFR 262. Hazardous Waste Number: D001. Dispose in accordance with all current regulations.
Nitrogen	Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

DOT Information For This Mixture

Shipping Name Compressed gas, n.o.s. (Nitrogen, Tert-Butyl Mercaptan)	
UN Number	UN1956
Hazard Class	2.2
Hazard Information	Non-Flammable Gas

Individual Component Information

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
T er t- B ut yl M er ca pt an	Butyl mercaptans	UN2347	3	II	Flammable liquid	Not available	Not available	Not available
Ni tr o g en	Nitrogen, compressed	UN1066	2.2	Not applicable	2.2	75 kg or L	150 kg	N/A

Canadian Transportation of Dangerous Goods

	Shipping Name	UN Number	Class	Packing Group / Risk Group
Tert	Butyl Mercaptans	UN23347	3	II
But yl Mer capt an				
Nitr oge n	Nitrogen, compressed	UN1066	2.2	Not applicable

Section 15: Regulatory Information

U.S. Regulations

0.0.110	galations		
	CERCLA Sections	SARA 355.30	SARA 355.40
Tert- Butyl Mercapt	Not available	Not available	Not available
an			
Nitroge	Not regulated.	Not regulated.	Not regulated.
l n			

SARA 370.21

		Acute	Chronic	Fire	Reactive	Sudden Release
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Tert-	No	No	Yes	No	Not available
Butyl					
Merc					
aptan					
Nitro	Yes	No	No	No	Yes
gen					

SARA 372.65

Tert-Butyl Mercaptan	Not available
Nitrogen	Not regulated.

OSHA Process Safety

Tert-Butyl Mercaptan	No
Nitrogen	Not regulated.

State Regulations

	CA Proposition 65
Tert-Butyl Mercaptan	Not listed
Nitrogen	Not regulated.

Canadian Regulations

	WHMIS Classification
Tert-Butyl Mercaptan	Not available
Nitrogen	A

National Inventory Status

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Tert-	Listed on inventory	Not listed	Not available
Butyl	-		
Merca			
ptan			
Nitrog	Listed on inventory.	Not listed.	Listed on inventory.
en	-		•

Section 16: Other Information

	NFPA Rating
Tert-Butyl Mercaptan	HEALTH: 0, FIRE: 3, REACTIVITY:0
Nitrogen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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