

# SAFETY DATA SHEET

Creation Date 28-May-2009	Revision Date 12-Sep-2014	<b>Revision Number</b> 1
	1. Identification	
Product Name	tert-Butyl methyl ether	
Cat No. :	AC389050000; AC389050010; AC389050025	
Synonyms	2-Methyl-2-methoxy propane; MTBE; Methyl tert-butyl ether	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the safety	No Information available data sheet	
<b>Company</b> Fisher Scientific One Reagent Lane		

2. Hazard(s) identification

<u>Classification</u> This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Signal Word Danger

**Hazard Statements** Highly flammable liquid and vapor Causes skin irritation



## **Precautionary Statements**

Prevention Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool Response Get medical attention/advice if you feel unwell Inhalation

### 9. Physical and chemical properties

**Physical State** Appearance Odor **Odor Threshold** pН Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Relative Density** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition temperature** Viscosity Molecular Formula **Molecular Weight** 

Liquid Colorless Petroleum distillates No information available -110 °C / -166 °F 54 - 56 °C / 129.2 - 132.8 °F -28 °C / -18.4 °F No information available Not applicable

15.1 vol % 1.6 vol % 268 mbar @ 20 °C 0.2 0.740 Slightly soluble in water No data available 224 °C / 435.2 °F No information available 0.36 mPa.s at 20 °C C5 H12 O 88.15

#### 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability

Stable under normal conditions.

Hazardous Reaction	S	None under normal process	sing.		
		11. Toxicological information			
Acute Toxicity					
Product Information Component Informa Component Methyl tert-butyl Toxicologically Syne Products Delayed and immedi	tion t ether ergistic	LD50 Oral 2963 mg/kg(Rat) No information available well as chronic effects from	LD50 Dermal 10000 mg/kg(Rabbit) short and long-term exposu	LC50 Inhalation 23576 ppm (Rat)4 h Ire	
Irritation		Irritating to eyes and skin			
Sensitization		No information available			
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen. Limited evidence of a carcinogenic effect.			
Component	CAS-No	IARC N	TP ACGIH		

# tert-Butyl methyl ether

Methyl tert-butyl ether		C50 > 72 h 184 C50 = 96 h	887 mg/L LC50 96 h 100 mg/L LC50 96 h 929 mg/L LC50 96 h 672 mg/L LC50 96 h	EC50 = 11.4 mg/L 30 min EC50 = 8.23 mg/L 5 min EC50 = 9.67 mg/L 15 min	542 mg/L EC50 = 48 h
Persistence and Degradability		Persistence is unlikely based on information available.			
Bioaccumulation/ Accur	nulation	No informatio	on available.		
Mobility		Will likely be mobile in the environment due to its volatility.			
Component Methyl tert-butyl ether				<b>log Pow</b> 1.06	
		13. Di	sposal considera	ations	
Waste Disposal Method	S	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			
		14. T	ransport informa	ation	
DOT UN-No		UN2398			

# U.S. Federal Regulations

TSCA 12(b) Not applicable

#### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl tert-butyl ether	1634-04-4	>95	1.0
SARA 311/312 Hazardous Categorization			
Acute Health Hazard	Yes		
Chronic Health Hazard	Yes		
Fire Hazard	Yes		
Sudden Release of Pressure Hazard	No		
Reactive Hazard	No		



### 16. Other information

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Creation Date Revision Date Print Date Revision Summary 28-May-2009 12-Sep-2014 12-Sep-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

# End of SDS