

SAFETY DATA SHEET

Creation Date 28-May-2009 Revision Date 12-Sep-2014 Revision Number 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 No Information available

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane

2. Hazard(s) identification

Classification

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

рΗ

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

Relative Density Solubility

Partition coefficient; n-octanol/water Autoignition Temperature

Decomposition temperature

Viscosity

Molecular Formula Molecular Weight Liquid Colorless

Petroleum distillates No information available 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 ReactionsNone under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

ComponentLD50 OralLD50 DermalLC50 InhalationMethyl tert-butyl ether2963 mg/kg (Rat)10000 mg/kg (Rabbit)23576 ppm (Rat) 4 h

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicatq . 0 0whr

Methyl tert-butyl ether 800 mg/L EC50 > 72 h 184

887 mg/L LC50 96 h 100 mg/L LC50 96 h 929 mg/L

EC50 = 11.4 mg/L 30 min EC50 = 8.23 mg/L 5 min 542 mg/L EC50 = 48 h

mg/L EC50 = 96 h

LC50 96 h 672 mg/L LC50

EC50 = 8.23 mg/L 3 min

96 h

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component log Pow
Methyl tert-butyl ether 1.06

13. Disposal considerations

Waste Disposal Methods

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. Transport information

DOT

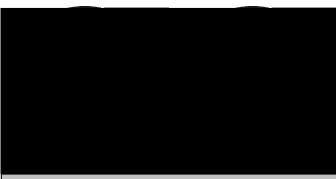
UN-No UN2398

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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Revision Summary

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