

Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 1/17/2022 Revision date: 1/17/2022 Supersedes version of: 7/1/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Trade name : MTBE HP

 Chemical name
 : methyl tert-butyl ether

 IUPAC name
 : tert-butyl methyl ether

 EC Index-No.
 : 603-181-00-X

 EC-No.
 : 216-653-1

 CAS-No.
 : 1634-04-4

 REACH registration No
 : 01-2119452786-27

REACH registration No : 01-2119452786

Product code : ED09910010

Type of product : Pure substance

Formula : C5H12O

Synonyms : 2-methoxy-2-methylpropane / BPLA-F MTBE / ether, tert-butyl methyl / methyl t-butyl ether /

methyl tert-butyl ether / methyl-tert-butyl ether / methyl-tertiary-butyl ether / MTB / MTBE / Product code 001B7348 / propane, 2-methoxy-2-methyl- / t-butyl methyl ether / tert-butyl

methyl ether / tertiary-butylmethyl ether

Product group : Trade product BIG No : 11340

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Solvent

Fuel: additive

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Monument Chemical BV B.V.B.A. Ketenislaan 3 BE– B-9130 Kallo

Belgium

T +32 3 570 28 11

sds@monumentchemical.com - www.monumentchemical.com

1.4. Emergency telephone number

Emergency number : BIG 24h/24h: +32 14 58 45 45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225 Skin corrosion/irritation, Category 2 H315

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS02

GHS07

Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

: Danger

: H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof electrical, lighting, ventilating equipment.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P321 - Specific treatment (see information on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry

extinguishing powder, Water spray to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methyl tert-butyl ether	CAS-No.: 1634-04-4 EC-No.: 216-653-1 EC Index-No.: 603-181-00-X REACH-no: 01-2119452786- 27	≥ 99.9	Flam. Liq. 2, H225 Skin Irrit. 2, H315

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the SDS where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Wash with

plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention. Specific treatment (see

supplemental first aid instruction on this label).

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Central nervous system

depression. Headache. Nausea. Vomiting. Dizziness. Coordination disorders. Narcosis. Feeling of weakness. Disturbances of consciousness. Respiratory difficulties.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Redness of the eye tissue. EXPOSURE TO HIGH CONCENTRATIONS: Lacrimation.

: Risk of aspiration pneumonia. AFTER INGESTION OF HIGH QUANTITIES: Central

nervous system depression. Symptoms similar to those listed under inhalation.
Chronic symptoms : Red skin. Dry skin. Itching.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

Symptoms/effects after ingestion

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture. Hazardous decomposition products in case of fire : Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames.

No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing

(EN 14605 or EN 13034). Large spills/in enclosed spaces: gas-tight suit (EN 943). Large spills/in enclosed spaces: self-contained breathing apparatus (EN 136 + EN 137).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

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Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the

explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain.

Provide equipment/receptacles with earthing. Do not use compressed air for pumping over

spills.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting

equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources,

Ignition sources, Incompatible materials. Keep in fireproof place. Keep container tightly

closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) acids.

(strong) bases. halogens. peroxides.

Storage area : Meet the legal requirements. Store in a dark area. Keep container in a well-ventilated place.

Fireproof storeroom. Store only in a limited quantity. Provide for a tub to collect spills.

Provide the tank with earthing. May be stored under nitrogen.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. opaque. correctly labelled. meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: steel. stainless steel. carbon steel. copper. bronze. polyethylene.

polypropylene. aluminium. glass.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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methyl tert-butyl ether (1634-04-4)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	183.5 mg/m³		
IOEL TWA [ppm]	50 ppm		
IOEL STEL	367 mg/m³		
IOEL STEL [ppm]	100 ppm		
Belgium - Occupational Exposure Limits			
OEL TWA	146 mg/m³		
OEL TWA [ppm]	40 ppm		
OEL STEL	367 mg/m³		
OEL STEL [ppm]	100 ppm		
France - Occupational Exposure Limits			
VME (OEL TWA)	183.5 mg/m³		
VME (OEL TWA) [ppm]	50 ppm		
VLE (OEL C/STEL)	367 mg/m³		
VLE (OEL C/STEL) [ppm]	100 ppm		
Germany - Occupational Exposure Limits (TRGS 900)			
Local name	(tert-Butyl)methylether		
AGW (OEL TWA) [1]	180 mg/m³		
AGW (OEL TWA) [2]	50 ppm		
Peak exposure limitation factor	1,5(I)		
Remark	DFG,EU,Y		
Regulatory reference	TRGS900		
Italy - Occupational Exposure Limits			
Local name	Ossido di terz-butile e metile		
OEL TWA	183.5 mg/m³		
OEL TWA [ppm]	50 ppm		
OEL STEL	357 mg/m³		
OEL STEL [ppm]	100 ppm		
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.		
Netherlands - Occupational Exposure Limits			
Local name	tert-Butylmethylether		
TGG-8u (OEL TWA)	180 mg/m³		
TGG-8u (OEL TWA) [ppm]	49 ppm		
TGG-15min (OEL STEL)	360 mg/m³		
TGG-15min (OEL STEL) [ppm]	98 ppm		
Regulatory reference	Arbeidsomstandighedenregeling 2021		
Spain - Occupational Exposure Limits			
Local name	Metil terc-butiléter (Éter metil-terc-butílico)		
VLA-ED (OEL TWA) [1]	183.5 mg/m³		

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methyl tert-butyl ether (1634-04-4)			
VLA-ED (OEL TWA) [2]	50 ppm		
VLA-EC (OEL STEL)	367 mg/m³		
VLA-EC (OEL STEL) [ppm]	100 ppm		
Remark	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).		
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	183.5 mg/m³		
WEL TWA (OEL TWA) [2]	50 ppm		
WEL STEL (OEL STEL)	367 mg/m³		
WEL STEL (OEL STEL) [ppm]	100 ppm		
USA - ACGIH - Occupational Exposure Limits			
Local name	Methyl tert-butyl ether		
ACGIH OEL TWA [ppm]	50 ppm		
Remark (ACGIH)	URT irr; kidney dam		
Regulatory reference	ACGIH 2021		

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

o.i.s. preeding i neo			
methyl tert-butyl ether (1634-04-4)			
DNEL/DMEL (Workers)			
Acute - local effects, inhalation	357 mg/m³		
Long-term - systemic effects, dermal	5100 mg/kg bw/day		
Long-term - systemic effects, inhalation	178.5 mg/m³		
DNEL/DMEL (General population)	DNEL/DMEL (General population)		
Acute - local effects, inhalation	214 mg/m³		
Long-term - systemic effects,oral	7.1 mg/kg bw/day		
Long-term - systemic effects, inhalation	53.6 mg/m³		
Long-term - systemic effects, dermal	3570 mg/kg bw/day		
PNEC (Water)			
PNEC aqua (freshwater)	5.1 mg/l		
PNEC aqua (marine water)	0.26 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	23 mg/kg dwt		
PNEC sediment (marine water)	1.17 mg/kg dwt		

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methyl tert-butyl ether (1634-04-4)		
PNEC (Soil)		
PNEC soil 1.56 mg/kg dwt		
PNEC (STP)		
PNEC sewage treatment plant	71 mg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

Other skin protection

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: polyethylene/ethylenevinylalcohol. GIVE GOOD RESISTANCE: nitrile rubber. PVA. neoprene. GIVE POOR RESISTANCE: natural rubber. butyl rubber

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Molecular mass : 88.15 g/mol
Colour : Colourless.

Odour : Camphor odour. Ether-like odour. Peppermint odour.

Odour threshold : No data available pH : 7 (4.1 %, 20 °C)

Relative evaporation rate (butylacetate=1) : 8.5
Relative evaporation rate (ether=1) : 1.6

Melting point : -109 °C (1013 hPa)

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Freezing point : No data available Boiling point : 55 °C (1013 hPa)

Flash point : -28 °C (Closed cup, 1013 hPa)

Critical temperature : 224 °C
Auto-ignition temperature : 460 °C

Decomposition temperature : No data available in the literature

Flammability (solid, gas) : No data available
Vapour pressure : 270 hPa (20 °C)
Vapour pressure at 50 °C : 850 hPa
Critical pressure : 34300 hPa
Relative vapour density at 20 °C : 3.2 (20 °C)
Relative density : 0.74 (20 °C)

Relative density of saturated gas/air mixture : 1.5

Density : 740 kg/m³ (20 °C)

Solubility : Moderately soluble in water. Substance floats in water. Soluble in ethanol. Soluble in ether.

Soluble in gasoline.

Water: 4.2 g/100ml (20 °C, Equivalent or similar to OECD 105)

Partition coefficient n-octanol/water (Log Pow) : 1.06 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask

Method, 20 °C)

Viscosity, kinematic : 0.464 mm²/s (20 °C, OECD 114: Viscosity of Liquids)

Viscosity, dynamic : No data available in the literature

Lower explosive limit (LEL) : 1.6 vol % Upper explosive limit (UEL) : 8.5 vol %

Particle size : Not applicable (liquid)

9.2. Other information

Specific conductivity : 16000 pS/m Saturation concentration : 1165 g/m³ VOC content : 100 %

Other properties : Gas/vapour heavier than air at 20°C. Clear. Highly volatile. Neutral reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts violently with (some) acids. Prolonged storage: may form peroxides. This reaction is accelerated on exposure to light.

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

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SECTION 11: Toxicological information

-	7				4.4		4		
1	4	•	In	torm	ation	On	toxico	logica	l effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

methyl tert-butyl ether (1634-04-4)		
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	85 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))	

Skin corrosion/irritation : Causes skin irritation.

pH: 7 (4.1 %, 20 °C)

Serious eye damage/irritation : Not classified

pH: 7 (4.1 %, 20 °C)

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

methyl tert-butyl ether (1634-04-4)

Viscosity, kinematic 0.464 mm²/s (20 °C, OECD 114: Viscosity of Liquids)

Potential adverse human health effects and : Based on availab

symptoms

: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC)

No 1272/2008

Ecology - air : Not included in the list of substances which may contribute to the greenhouse effect (IPCC).

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not

classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : Slightly harmful to crustacea (Daphnia). Slightly harmful to fishes. Groundwater pollutant.

Slightly harmful to algae. Slightly harmful to bacteria.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

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methyl tert-butyl ether (1634-04-4)	
LC50 - Fish [1]	672 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	472 mg/l (US EPA, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value, Locomotor effect)

12.2. Persistence and degradability

methyl tert-butyl ether (1634-04-4)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

methyl tert-butyl ether (1634-04-4)		
BCF - Fish [1] 1.5 (28 day(s), Cyprinus carpio, Flow-through system, Experimental value		
Partition coefficient n-octanol/water (Log Pow)	1.06 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 $^{\circ}\text{C})$	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.	

12.4. Mobility in soil

nethyl tert-butyl ether (1634-04-4)		
Surface tension	19.3 mN/m (25 °C, 100 %, EU Method A.5: Surface tension)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.96 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	

12.5. Results of PBT and vPvB assessment

methyl tert-butyl ether (1634-04-4)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Results of PBT assessment The product does not meet the PBT and vPvB classification criteria		

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information

: Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials

: Avoid release to the environment.

European List of Waste (LoW) code

: 15 01 10* - packaging containing residues of or contaminated by dangerous substances

07 01 04* - other organic solvents, washing liquids and mother liquors

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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14.1 UN number

UN-No. (ADR) : UN 2398 UN-No. (IMDG) UN 2398 UN 2398 UN-No. (IATA) UN-No. (ADN) : UN 2398 UN-No. (RID) : UN 2398

14.2. UN proper shipping name

Proper Shipping Name (ADR) : methyl tert-butyl ether Proper Shipping Name (IMDG) : Methyl-tert-butylether Proper Shipping Name (IATA) : Methyl-tert-butylether

: METHYL TERT-BUTYL ETHER Proper Shipping Name (ADN)

Proper Shipping Name (RID) : Methyl-tert-butylether

Transport document description (ADR) : UN 2398 methyl tert-butyl ether, 3, II, (D/E) Transport document description (IMDG) : UN 2398 Methyl-tert-butylether, 3, II Transport document description (IATA) : UN 2398 Methyl-tert-butylether, 3, II

Transport document description (ADN) : UN 2398 METHYL TERT-BUTYL ETHER, 3, II

Transport document description (RID) : UN 2398 Methyl-tert-butylether, 3, II

14.3. Transport hazard class(es)

ADR

: 3 Transport hazard class(es) (ADR) Danger labels (ADR) 3



IMDG

Transport hazard class(es) (IMDG) 3 3

Danger labels (IMDG)



IATA

Transport hazard class(es) (IATA) : 3 3 Danger labels (IATA)



ADN

Transport hazard class(es) (ADN) : 3 Danger labels (ADN) 3



RID

Transport hazard class(es) (RID) : 3 Danger labels (RID) 3

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14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : Subject to the provisions

Classification code (ADR) : F1
Limited quantities (ADR) : 11
Hazard identification number (Kemler No.) : 33

Orange plates :

33 2398

Tunnel restriction code (ADR) : D/E EAC code : •3YE

Transport by sea

Transport regulations (IMDG) : Subject to the provisions

EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-D

Air transport

Transport regulations (IATA) : Subject to the provisions

PCA limited quantity max net quantity (IATA) : 1L CAO max net quantity (IATA) : 60L

Inland waterway transport

Classification code (ADN) : F1
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 1

Rail transport

Transport regulations (RID) : Subject to the provisions

Classification code (RID) : F1 Limited quantities (RID) : 1L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	methyl tert-butyl ether
3(b)	methyl tert-butyl ether
40.	methyl tert-butyl ether

MTBE HP is not on the REACH Candidate List

MTBE HP is not on the REACH Annex XIV List

MTBE HP is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

MTBE HP is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content : 100 %

15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2)

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Technical Instructions on Air Quality Control (TA : 5.2.5 Organic Substances

Luft)

Netherlands

Waterbezwaarlijkheid : 11 - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen The substance is not listed SZW-lijst van mutagene stoffen The substance is not listed SZW-lijst van reprotoxische stoffen – Borstvoeding The substance is not listed The substance is not listed

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling : The substance is not listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Switzerland

Storage class (LK) : LK 3 - Flammable liquids

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances

and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.

Safety Data Sheet

according to Regulation (EU) 2015/830

Full text of H- and EUH-statements:	
H315	Causes skin irritation.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

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