



an analyti**chem** company

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Tetrahydrofuran (THF) > 99.5 % for analysis, ACS stabilized with

2,6-di-tert-butyl-4-methylphenol (B

Revision date: 17.02.2023

Product code: 19884

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

1.1. Product identifier

Tetrahydrofuran (THF) > 99.5 % for analysis, ACS stabilized with 2,6-di-tert-butyl-4-methylphenol (B

REACH Registration Number:	01-2119444314-46-XXXX
CAS No:	109-99-9
Index No:	603-025-00-0
EC No:	203-726-8

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
e-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
e-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMT	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and 0	Canada: +1 703-741-5970 (collect calls
	accepted)	

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Flam. Liq. 2; H225 Carc. 2; H351 Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H335 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Revision No: 1,02 - Replaces version: 1,01



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Pictograms:

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Hazard statements

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378	In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.

Special labelling of certain mixtures

EUH019

May form explosive peroxides.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C4H8O
Molecular weight:	72,11 g/mol

Hazardous components

CAS No	Chemical name			Quantity	
	EC No Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)				
109-99-9	tetrahydrofuran			100 %	
	203-726-8	603-025-00-0	01-2119444314-46-XXXX		
	Flam. Liq. 2, Carc. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, STOT SE 3; H225 H351 H302 H319 H335 H336 EUH019				

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
109-99-9	203-726-8	tetrahydrofuran	100 %
	dermal: LD50 = SE 3; H335: >=	> 2000 mg/kg; oral: LD50 = 1,65 mg/kg Eye Irrit. 2; H319: >= 25 - 100 STOT 25 - 100	

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant Cough Dyspnoea Narcotic effects

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Beware of reignition. Hazardous combustion products

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



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General advice

Keep away from sources of ignition - No smoking. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators,

and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid exposure - obtain special instructions before use. Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation.

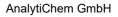
Advice on protection against fire and explosion

Take action to prevent static discharges.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.





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Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store in a cool dry place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Further information on storage conditions

Protect from sunlight. Protect against: Light minimum storage temperature +5°C maximum storage temperature +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
109-99-9	Tetrahydrofuran	50	150		TWA (8 h)	
		100	300		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
109-99-9	Tetrahydrofuran	THF	2 mg/L	Urine	End of shift



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DNEL/DMEL values

CAS No	Substance				
DNEL type		E	Exposure route	Effect	Value
109-99-9	tetrahydrofuran				
Worker DNE	L, long-term	i	inhalation	systemic	72,4 mg/m³
Worker DNE	L, acute	i	nhalation	systemic	96 mg/m³
Worker DNE	L, long-term	i	nhalation	local	150 mg/m³
Worker DNE	L, acute	i	nhalation	local	300 mg/m³
Worker DNE	L, long-term	C	dermal	systemic	12,6 mg/kg bw/day
Consumer D	NEL, long-term	i	nhalation	systemic	13 mg/m ³
Consumer D	NEL, acute	i	nhalation	systemic	52 mg/m ³
Consumer D	NEL, long-term	i	nhalation	local	75 mg/m³
Consumer D	NEL, acute	i	nhalation	local	150 mg/m³
Consumer D	NEL, long-term	C	dermal	systemic	1,5 mg/kg bw/day
Consumer D	NEL, long-term	c	oral	systemic	1,5 mg/kg bw/day
PNEC value	~~	•			

PNEC values

CAS No	Substance		
Environmen	tal compartment	Value	
109-99-9	tetrahydrofuran		
Freshwater		4,32 mg/l	
Freshwater	(intermittent releases)	21,6 mg/l	
Marine water		0,432 mg/l	
Freshwater sediment		23,3 mg/kg	
Marine sediment		2,33 mg/kg	
Secondary p	poisoning	67 mg/kg	
Micro-organisms in sewage treatment plants (STP)		4,6 mg/l	
Soil		2,13 mg/kg	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection goggles Face protection umbrella

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With



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specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact Trade name/designation: KCL 890 Vitoject® Suitable material: FKM (fluoro rubber) 0,7 mm Wearing time with occasional contact (splashes): > 10 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear fire resistant or flame retardant clothing. Take off immediately all contaminated clothing and wash it before reuse. Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands and face before breaks and after work and take a shower if necessary.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: A

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	like: Ether

Melting point/freezing point:	-108,5 °C	
Boiling point or initial boiling point and	65-66 °C	
boiling range:		
Flammability:	No data available	
Lower explosion limits:	1,5 vol. %	
Upper explosion limits:	12,4 vol. %	
Flash point:	-21,5 °C	
Auto-ignition temperature:	215 °C	
Decomposition temperature:	No data available	
pH-Value (at 20 °C):	7-8 (200 g/l)	
Viscosity / kinematic:	No data available	
Water solubility:	easily soluble	
Solubility in other solvents		
No data available		
Partition coefficient n-octanol/water:	log Pow: 0,45 (25 °C)	
Vapour pressure:	173 hPa	
(at 20 °C)		

Test method



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Density (at 20 °C):	0,89 g/cm³		
Bulk density:	No data available		
Relative vapour density:	No data available		
2. Other information			
Information with regard to physical hazard clas	ses		
Explosive properties			
Vapours are heavier than air, spread along flo			
Sustaining combustion:	Sustaining combustion		
Self-ignition temperature		215°C	
Solid:	No data available		
Gas:	No data available		
Oxidizing properties			
No data available			
Other safety characteristics			
Evaporation rate:	No data available		
Solvent separation test:	No data available		
Solvent content:	No data available		
Solid content:	No data available		
Sublimation point:	No data available		
Softening point:	No data available		
Pour point:	No data available		
	No data available		
Viscosity / dynamic:	0,48 mPa·s		
(at 20 °C)			
Flow time:	No data available		
Further Information			
May form explosive peroxides.			

10.1. Reactivity

Vapours may form explosive mixtures with air. Formation of: Peroxides

10.2. Chemical stability

Protect against: Light Air

10.3. Possibility of hazardous reactions

Bromine Oxidising agent Oxygen Acids Peroxides alkali hydroxides hydrides, potassium thionyl chloride, halides titanium tetrachloride

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Light Air



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10.5. Incompatible materials

Rubber articles Plastic articles tin

10.6. Hazardous decomposition products

Peroxides In case of fire: SECTION 5: Firefighting measures

Further information

Peroxides

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

Acute toxicity

Harmful if swallowed.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
109-99-9	tetrahydrofuran					
	oral	LD50 mg/kg	1,65	Rat	Study report (1978)	Conducted according to a published proce
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2009)	OECD Guideline 402

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (tetrahydrofuran) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (tetrahydrofuran) May cause drowsiness or dizziness. (tetrahydrofuran)

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available



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Practical experience No data available

11.2. Information on other hazards

Other information

No data available

Further information Irritant Cough Dyspnoea Narcotic effects

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
109-99-9	tetrahydrofuran						
	Acute fish toxicity	LC50 mg/l	2160	96 h	Pimephales promelas	Center for Lake Superior Environmental S	OECD Guideline 203
	Fish toxicity	NOEC	216 mg/l	33 d	Pimephales promelas	Environmental toxicology and chemistry 4	Effect on hatching rate, survival and gr

12.2. Persistence and degradability

39 %; 28 d; aerob OECD-301D

Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
109-99-9	tetrahydrofuran	0,45

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.



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Send to a physico-chemical treatment facility under observation of official regulations. Do not mix with other wastes.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 2056
14.2. UN proper shipping name:	TETRAHYDROFURAN
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 2056
14.2. UN proper shipping name:	TETRAHYDROFURAN
14.3. Transport hazard class(es):	3
14.4. Packing group:	11
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
<u>14.1. UN number or ID number:</u>	UN 2056
	UN 2056 TETRAHYDROFURAN
14.1. UN number or ID number:	
14.1. UN number or ID number: 14.2. UN proper shipping name:	TETRAHYDROFURAN
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es):	TETRAHYDROFURAN 3
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:	TETRAHYDROFURAN 3 II
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:	TETRAHYDROFURAN 3 II
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:	TETRAHYDROFURAN 3 II 3 -
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:	TETRAHYDROFURAN 3 II 3 - 1 L
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:	TETRAHYDROFURAN 3 II 3 - 1 L E2
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI//IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN 3
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI//IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN 3 II
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN 3 II 3
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Limited quantity Passenger:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN 3 II 3 1 L
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Limited quantity Passenger: Passenger LQ:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN 3 II 3 1 L Y341
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Limited quantity Passenger: Passenger LQ: Excepted quantity:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN 3 II 3 1 L Y341 E2
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Limited quantity Passenger:Passenger LQ:Excepted quantity:IATA-packing instructions - Passenger:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN 3 II 3 1 L Y341 E2 353
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Limited quantity Passenger: Passenger LQ: Excepted quantity:	TETRAHYDROFURAN 3 II 3 - 1 L E2 F-E, S-D UN 2056 TETRAHYDROFURAN 3 II 3 1 L Y341 E2



Tetrahydrofuran (THF) > 99.5 % for analysis, ACS stabilized with			
Revision date: 17.02.2023	2,6-di-tert-butyl-4-methylphenol (B Product code: 19884	Page 12 of 12	
IATA-max. quantity - Cargo:	60 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture		
EU regulatory information			
Restrictions on use (REACH, annex XVII):			
Entry 3, Entry 40, Entry 75			
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to the work protection guideline' (94/33/EC). Observe employment restrict under the Maternity Protection Directive (92/85/EEC) for expectan nursing mothers.	ctions	
Water hazard class (D):	1 - slightly hazardous to water		
SECTION 16: Other information			

Changes

This data sheet contains changes from the previous version in section(s): 1,2.

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
EUH019	May form explosive peroxides.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.