

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Methyl tert-butyl ether (MTBE), GC refer

Revision: 11.07.2025

Product code: AC18.04611

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

### 1.1. Product identifier

Methyl tert-butyl ether (MTBE), GC refer

REACH Registration Number: 01-2119452786-27-XXXX  
CAS No: 1634-04-4  
Index No: 603-181-00-X  
EC No: 216-653-1

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

#### Use of the substance/mixture

Reagents and laboratory chemicals  
Only for laboratory and analysis purposes.

#### Uses advised against

Do not use for private purposes (household).

### 1.3. Details of the supplier of the safety data sheet

#### Details of the supplier of the safety data sheet

Company name: AnalytiChem Services, Unipessoal, Lda  
Street: Rua de Júlio Dinis 676 7º  
Place: N-4050-320 Porto  
Telephone: +351 226002917  
E-mail: info@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.com  
Responsible Department: SDS service department

#### Supplier or manufacturer details

Company name: AnalytiChem Belgium NV  
Street: Industriezone "De Arend" 2  
Place: B-8210 Zedelgem  
Telephone: +32 50 28 83 20  
E-mail: info.be@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Responsible Department: AnalytiChem:  
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
+353 1 901 4670 (CHEMTREC)

### 1.4. Emergency telephone number:

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## 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

Skin Irrit. 2; H315

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



## Hazard statements

H225

Highly flammable liquid and vapour.

H315

Causes skin irritation.

## Precautionary statements

P210

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

P233

Keep container tightly closed.

P280

P302+P352

IF ON SKIN: Wash with plenty of water.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

Sum formula:

C<sub>5</sub>H<sub>12</sub>O

Molecular weight:

88,15 g/mol

## Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
1634-04-4	tert-butyl methyl ether			100 %
	216-653-1	603-181-00-X	01-2119452786-27-XXXX	
	Flam. Liq. 2, Skin Irrit. 2; H225 H315			

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

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## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1634-04-4	216-653-1	tert-butyl methyl ether	100 %
		inhalation: LC50 = 85 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	

## 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).

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

No data available

## After inhalation

Provide fresh air.

## After contact with skin

Wash immediately with: Water

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

## After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

## After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

Irritant

Dizziness

The product causes narcotic-like effects.

Inebriation

Vomiting

Vapours may cause drowsiness and dizziness.

Agitation

Spasms

Unconsciousness

Has degreasing effect on the skin.

## 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

Carbon dioxide (CO<sub>2</sub>).

Foam.

Extinguishing powder

## Unsuitable extinguishing media

no restriction

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**5.2. Special hazards arising from the substance or mixture**

Combustible liquid.  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
Hazardous combustion products  
In case of fire may be liberated:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

**5.3. Advice for firefighters**

Remove persons to safety. Do not inhale explosion and combustion gases.  
Avoid contact with skin, eyes and clothes.  
In case of fire: Wear self-contained breathing apparatus.  
Use water spray jet to protect personnel and to cool endangered containers.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Suppress gases/vapours/mists with water spray jet.  
Move undamaged containers from immediate hazard area if it can be done safely.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****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  
Consult an expert  
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.

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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**

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 gas/fumes/vapour/spray. 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**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.  
The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

##### **Further information on handling**

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

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### **Hints on joint storage**

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.  
national regulations

##### **Further information on storage conditions**

Vapours may form explosive mixtures with air.  
storage temperature +2°C - +25°C  
Protect against: Light

#### **7.3. Specific end use(s)**

Laboratory use Laboratory chemical

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

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## Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
1634-04-4	tert-Butyl-methyl ether	50	183.5		TWA (8 h)	
		100	367		STEL (15 min)	

## DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1634-04-4	tert-butyl methyl ether			
Worker DNEL, long-term		inhalation	systemic	178,5 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	357 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	5100 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	53,6 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	214 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	3570 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	7,1 mg/kg bw/day

## PNEC values

CAS No	Substance	Value
1634-04-4	tert-butyl methyl ether	
Freshwater		5,1 mg/l
Freshwater (intermittent releases)		47,2 mg/l
Marine water		0,26 mg/l
Freshwater sediment		23 mg/kg
Marine sediment		1,17 mg/kg
Micro-organisms in sewage treatment plants (STP)		71 mg/l
Soil		1,56 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

Suitable eye protection: goggles.

## Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact

Trade name/designation: KCL 730 Camatril® Velours

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Suitable material: NBR (Nitrile rubber) 0,4mm  
Wearing time with occasional contact (splashes): >120min

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](http://www.kcl.de)).

**Skin protection**

Flame-retardant protective clothing. Wear anti-static footwear and clothing

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device with filter or ventilator filtering device of type: AX

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Environmental exposure controls**

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

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	-108,6 °C
Boiling point or initial boiling point and boiling range:	55,3 °C
Flammability:	not applicable
Lower explosion limits:	1,5 vol. %
Upper explosion limits:	8,5 vol. %
Flash point:	-28,2 °C
Auto-ignition temperature:	460 °C
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / kinematic: (at 40 °C)	0,409 mm <sup>2</sup> /s
Water solubility: (at 20 °C)	42 g/l
Solubility in other solvents	not determined
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	not applicable
Dispersion stability:	No data available
Vapour pressure: (at 20 °C)	268 hPa
Vapour pressure:	No data available
Density:	0,74 g/cm <sup>3</sup>
Relative density:	No data available

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Bulk density:	No data available
Relative vapour density:	not determined
Particle characteristics:	No data available

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

Vapours can form explosive mixtures with air.

## Sustained combustibility:

Sustained combustibility

## Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

## Oxidizing properties

Not oxidising.

**Other safety characteristics**

## Evaporation rate:

No data available

## Solvent separation test:

No data available

## Solvent content:

100%

## 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:

0,36 mPa·s

(at 20 °C)

## Flow time:

No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Highly flammable.

Vapours can form explosive mixtures with air.

Formation of: Peroxides

**10.2. Chemical stability**

Protect against: Light

**10.3. Possibility of hazardous reactions**

Oxidising agent Acids Alkali (lye)

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

**10.5. Incompatible materials**

various plastics

rubber

**10.6. Hazardous decomposition products**

Peroxides

**Further information**

No data available



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## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1634-04-4	tert-butyl methyl ether				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 85 mg/l	Rat	Study report (1969)	OECD Guideline 403

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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**

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

**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.

**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

Irritant

Dizziness

The product causes narcotic-like effects.

Inebriation

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Vomiting  
Vapours may cause drowsiness and dizziness.  
Agitation  
Spasms  
Unconsciousness  
Has degreasing effect on the skin.

**Further information**

Pulmonary oedema  
Pneumonia  
Observe risk of aspiration if vomiting occurs.  
Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

**SECTION 12: Ecological information****12.1. Toxicity**

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1634-04-4	tert-butyl methyl ether					
	Acute fish toxicity	LC50 672 mg/l	96 h	Pimephales promelas	Grey literature (1988)	other: US EPA 1981
	Acute algae toxicity	ErC50 184 mg/l	96 h	Pseudokirchneriella subcapitata	In 15th Annual SETAC Meeting 30 October	other: US EPA, WAF-method
	Acute crustacea toxicity	EC50 472 mg/l	48 h	Daphnia magna	Study report (1999)	EPA OPPTS 850.1010
	Fish toxicity	NOEC 299 mg/l	31 d	Pimephales promelas	Study report (1999)	other: ASTM E1241-92
	Crustacea toxicity	NOEC 51 mg/l	21 d	Daphnia magna	Study report (1999)	EPA OPPTS 850.1300

**12.2. Persistence and degradability**

2 %; 28 d; aerob  
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
1634-04-4	tert-butyl methyl ether	1,06

**BCF**

CAS No	Chemical name	BCF	Species	Source
1634-04-4	tert-butyl methyl ether	1,5	Cyprinus carpio	Publication (1984)

**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.

**12.6. Endocrine disrupting properties**

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

**12.7. Other adverse effects**

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No data available

## Further information

Avoid release to the environment.

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

## Disposal recommendations

Do not allow to enter into surface water or drains.

Send to a physico-chemical treatment facility under observation of official regulations.

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

## Contaminated packaging

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

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

## SECTION 14: Transport information

## Land transport (ADR/RID)

<b>14.1. UN number or ID number:</b>	UN 2398
<b>14.2. UN proper shipping name:</b>	METHYL tert-BUTYL ETHER
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	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)

<b>14.1. UN number or ID number:</b>	UN 2398
<b>14.2. UN proper shipping name:</b>	METHYL tert-BUTYL ETHER
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2

## Marine transport (IMDG)

<b>14.1. UN number or ID number:</b>	UN 2398
<b>14.2. UN proper shipping name:</b>	METHYL tert-BUTYL ETHER
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D

## Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number or ID number:</b>	UN 2398
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**14.2. UN proper shipping name:** METHYL tert-BUTYL ETHER**14.3. Transport hazard class(es):** 3**14.4. Packing group:** II

Hazard label: 3

Limited quantity Passenger: 1 L

Passenger LQ: Y341

Excepted quantity: E2

IATA-packing instructions - Passenger: 353

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 364

IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Combustible liquid.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/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 Directive P5c FLAMMABLE LIQUIDS

2012/18/EU (SEVESO III):

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 9,11.

**Abbreviations and acronyms**

Flam. Liq. 2: Flammable liquids, hazard category 2

Skin Irrit. 2: Skin irritation, hazard category 2

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.

**Further Information**

Provide appropriate information, instructions and training to users

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.