

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@analyticchem.com
Contact person: SDS service department
E-mail: SDS@analyticchem.com
Internet: www.analyticchem.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@analyticchem.com
Contact person: SDS service department
E-mail: SDS@analyticchem.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

1.4. Emergency telephone number:

+353 1 901 4670 (CHEMTREC)

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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: C5H12O

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 (CO₂).

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 (CO₂)

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 ³ | fib/cm ³ | Category | Origin |
|-----------|-------------------------|-----------|-------------------|---------------------|----------------------------|--------|
| 1634-04-4 | tert-Butyl-methyl ether | 50 100 | 183.5 367 | | TWA (8 h) 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 ³ |
| Worker DNEL, acute | | inhalation | local | 357 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 5100 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 53,6 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 214 mg/m ³ |
| 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 | Environmental compartment | 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 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).

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 ² /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 ³ |
| 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: (at 20 °C)

0,36 mPa·s

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 mg/kg | > 2000 Rat | Study report (1996) | OECD Guideline 401 |
| | dermal | LD50 mg/kg | > 2000 Rat | Study report (1996) | OECD Guideline 402 |
| | inhalation (4 h) vapour | LC50 mg/l | 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)

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

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

Air transport (ICAO-TI/IATA-DGR)

| | |
|--------------------------------------|---------|
| <u>14.1. UN number or ID number:</u> | 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 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

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.