

Butanediol-1,4 - Methanol solution

Revision: 20.05.2025

Product code: AC15.03884

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

1.1. Product identifier

Butanediol-1,4 - Methanol solution

UFI: 3Y9J-820N-7WC9-UHPN

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
 +44 20 3807 3798 (CHEMTREC)

1.4. Emergency telephone number:

Further Information

inapplicable, this product is a mixture REACH registration number see section 3

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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 2; H225

Acute Tox. 3; H331

Acute Tox. 3; H311

Acute Tox. 3; H301

STOT SE 1; H370

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

methanol

Signal word:

Danger

Pictograms:**Hazard statements**

H225

Highly flammable liquid and vapour.

H301+H311+H331

Toxic if swallowed, in contact with skin or if inhaled.

H370

Causes damage to organs.

Precautionary statements

P210

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

P260

Do not breathe mist/vapours/spray.

P308+P311

IF exposed or concerned: Call a POISON CENTER/doctor.

P403+P235

Store in a well-ventilated place. Keep cool.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---------|---|--------------|------------------|--------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 67-56-1 | methanol | | | 95 - < 100 % |
| | 200-659-6 | 603-001-00-X | 01-2119433307-44 | |
| | Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370 | | | |

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 | |
| 67-56-1 | 200-659-6 | methanol | 95 - < 100 % |
| | | inhalation: LC50 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = 6000 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10 | |

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**

First aider: Pay attention to self-protection!
Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Call a physician immediately.

After contact with skin

Wash immediately with: Water
Take off immediately all contaminated clothing and wash it before reuse.
Call a physician immediately.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Consult an ophthalmologist.

After ingestion

Provide fresh air.
Induce vomiting when the affected person is not unconscious.
Call a physician immediately.
Notes for the doctor : Methanol

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

Irritant, Dizziness, Dizziness, Anaesthetic state, Agitation, Spasms, Inebriation, Vomiting, Headache,
Impairment of vision
Repeated exposure may cause skin dryness or cracking.

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**

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids

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Highly flammable.
Hazardous combustion products
In case of fire may be liberated: Carbon dioxide, Carbon monoxide
Vapours are heavier than air, spread along floors and form explosive mixtures with air.
Beware of re-ignition.
Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
Wear full chemical protective clothing.
In case of fire and/or explosion do not breathe fumes.

Additional information

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

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 uncontrolled discharge of product into the environment. Danger of explosion
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**

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

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

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air.

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.

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 in a cool, well-ventilated place.

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. 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.

Further information on storage conditions

Keep cool. Protect from sunlight.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|-----------|-----|-------------------|-----------|---------------|--------|
| 67-56-1 | Methanol | 200 | 266 | | TWA (8 h) | WEL |
| | | 250 | 333 | | STEL (15 min) | WEL |

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DNEL/DMEL values

| CAS No | Substance | | | |
|--------------------------|-----------|----------------|----------|-----------------|
| DNEL type | | Exposure route | Effect | Value |
| 67-56-1 | methanol | | | |
| Consumer DNEL, acute | | inhalation | systemic | 50 mg/m³ |
| Worker DNEL, long-term | | inhalation | systemic | 260 mg/m³ |
| Worker DNEL, acute | | inhalation | systemic | 260 mg/m³ |
| Worker DNEL, long-term | | inhalation | local | 260 mg/m³ |
| Worker DNEL, acute | | inhalation | local | 260 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 40 mg/kg bw/day |
| Worker DNEL, acute | | dermal | systemic | 40 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 50 mg/m³ |
| Consumer DNEL, long-term | | inhalation | local | 50 mg/m³ |
| Consumer DNEL, acute | | inhalation | local | 50 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 8 mg/kg bw/day |
| Consumer DNEL, acute | | dermal | systemic | 8 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 8 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 8 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|--|-----------|--|
| Environmental compartment | Value | |
| 67-56-1 | methanol | |
| Freshwater | 20,8 mg/l | |
| Freshwater (intermittent releases) | 1540 mg/l | |
| Marine water | 2,08 mg/l | |
| Freshwater sediment | 77 mg/kg | |
| Marine sediment | 7,7 mg/kg | |
| Micro-organisms in sewage treatment plants (STP) | 100 mg/l | |
| Soil | 100 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.

Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment**Eye/face protection**

goggles

Hand protection

Tested protective gloves must be worn. 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.

Skin protection

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

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

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Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

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

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.

Thermal hazards

No data available

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: | clear |
| Odour: | like: Methanol |
| Odour threshold: | No data available |
| Melting point/freezing point: | -98 °C |
| Boiling point or initial boiling point and boiling range: | 65 °C |
| Flammability: | not applicable |
| Lower explosion limits: | No data available |
| Upper explosion limits: | No data available |
| Flash point: | 11 °C |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | not determined |
| pH-Value: | No data available |
| Viscosity / kinematic: | not determined |
| Solubility in other solvents | |
| not determined | |
| Dissolution rate: | not determined |
| Partition coefficient n-octanol/water: | not determined |
| Dispersion stability: | not determined |
| Vapour pressure: | No data available |
| Vapour pressure: | No data available |
| Density: | 0,8 g/cm ³ |
| Relative density: | not determined |
| Bulk density: | No data available |
| Relative vapour density: | not determined |
| Particle characteristics: | not determined |

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

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Gas: not applicable
Oxidizing properties
not determined

Other safety characteristics

Evaporation rate: not determined
Solvent separation test: not determined
Solvent content: 100%
Solid content: 0%
Sublimation point: No data available
Softening point: No data available
Pour point: No data available
No data available:
Viscosity / dynamic: No data available
Flow time: not determined

Further Information

not determined

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

Highly flammable.
Vapours can form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent
Risk of explosion with: Oxidizing agents, perchloric acid, perchlorates, salts of oxyhalogenic acids, chromium(VI) oxide, halogen oxides, nitrogen oxides, nonmetallic oxides, chromosulfuric acid, chlorates, hydrides, zinc diethyl, halogens, powdered magnesium, hydrogen peroxide, Nitric acid, sulphuric acid, permanganic acid, sodium hypochlorite Exothermic reaction with: acid halides, Acid anhydrides, Reducing agents, acids, Bromine, Chlorine, Chloroform, magnesium, tetrachloromethane, CYANURIC CHLORIDE Risk of ignition or formation of inflammable gases or vapours with: Fluorine, Oxides of phosphorus, Raney-nickel Generates dangerous gases or fumes in contact with: Alkaline earth metals, Alkali metals

10.4. Conditions to avoid

Vapours can form explosive mixtures with air.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

various plastics

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information**11.1. Information on hazard classes****Toxicokinetics, metabolism and distribution**

No data available

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Acute toxicity

Toxic if inhaled.
Toxic in contact with skin.
Toxic if swallowed.

ATEmix calculated

ATE (oral) 100,2 mg/kg; ATE (dermal) 300,5 mg/kg; ATE (inhalation vapour) 3,000 mg/l; ATE (inhalation dust/mist) 0,5010 mg/l

| CAS No | Chemical name | | | | |
|---------|-------------------------|-----------------|---------|--|--|
| | Exposure route | Dose | Species | Source | Method |
| 67-56-1 | methanol | | | | |
| | oral | LD50 6000 mg/kg | Monkey | Amer J Ophthalmol 40: 76-83 (cited in DG | Determination of the acute toxicity of t |
| | dermal | ATE 300 mg/kg | | | |
| | inhalation (4 h) vapour | LC50 128,2 mg/l | Rat | Study report (1980) | Study performed according to internal co |
| | inhalation dust/mist | ATE 0,5 mg/l | | | |

Irritation and corrosivity

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

Causes damage to organs. (methanol)

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**

No data available

Other information

Irritation to respiratory tract
Repeated exposure may cause skin dryness or cracking.

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Causes damage to organs. Organs affected:
Liver and kidney damage, , Irreversible damage to the optic nerve.
see also Section 4

Further information

Symptoms may be delayed.
Other dangerous properties can not be excluded.

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 |
| 67-56-1 | methanol | | | | | |
| | Acute fish toxicity | LC50 15400 mg/l | 96 h | Lepomis macrochirus | Bulletin of Environmental Contamination | other: EPA-660/3-75-009, 1975 |
| | Acute algae toxicity | ErC50 ca. 22000 mg/l | 96 h | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety 7 | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 > 10000 mg/l | 48 h | Daphnia magna | Water Research 23(4): 495-499 (1989) | other: DIN 38412 Teil 11 |
| | Fish toxicity | NOEC 446,7 mg/l | 28 d | Pimephales promelas | SAR and QSAR in Environmental Research, | Calculation performed with ECOSAR |
| | Crustacea toxicity | NOEC 208 mg/l | 21 d | Daphnia magna | OECD QSAR Toolbox Report (2013) | Toxicity of the target chemical is predi |

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---------------|---------|
| 67-56-1 | methanol | -0,77 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|---------|---------------|-----|-----------------|----------------------|
| 67-56-1 | methanol | 1 | Cyprinus carpio | Comparative Biochemi |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

There are no data available on the mixture itself.

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Further information

Do not allow to enter into surface water or drains.

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

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

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

Do not allow to enter into surface water or drains.

Contaminated packaging

This material and its container must be disposed of as hazardous waste.

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)**

| | |
|--|----------|
| 14.1. UN number or ID number: | UN 1230 |
| 14.2. UN proper shipping name: | METHANOL |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3+6.1 |
| Classification code: | FT1 |
| Special Provisions: | 279 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 336 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|--|----------|
| 14.1. UN number or ID number: | UN 1230 |
| 14.2. UN proper shipping name: | METHANOL |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3+6.1 |
| Classification code: | FT1 |
| Special Provisions: | 279 802 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |

Marine transport (IMDG)

| | |
|--|----------|
| 14.1. UN number or ID number: | UN 1230 |
| 14.2. UN proper shipping name: | METHANOL |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3+6.1 |
| Special Provisions: | 279 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| EmS: | F-E, S-D |

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Air transport (ICAO-TI/IATA-DGR)

| | | |
|--|----------|------|
| 14.1. UN number or ID number: | UN 1230 | |
| 14.2. UN proper shipping name: | METHANOL | |
| 14.3. Transport hazard class(es): | 3 | |
| 14.4. Packing group: | II | |
| Hazard label: | 3+6.1 | |
| Special Provisions: | A113 | |
| Limited quantity Passenger: | 1 L | |
| Passenger LQ: | Y341 | |
| Excepted quantity: | E2 | |
| IATA-packing instructions - Passenger: | | 352 |
| IATA-max. quantity - Passenger: | | 1 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. Toxic.

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 69

Information according to Directive 2012/18/EU (SEVESO III): H2 ACUTE TOXIC

Additional information: P5c

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

SECTION 16: Other information

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Abbreviations and acronyms

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

Acute Tox. 3: Acute toxicity, hazard category 3

STOT SE 1: Specific target organ toxicity - single exposure, hazard category 1

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%

Classification for mixtures and used evaluation method

| Classification | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Acute Tox. 3; H331 | Calculation method |
| Acute Tox. 3; H311 | Calculation method |
| Acute Tox. 3; H301 | Calculation method |
| STOT SE 1; H370 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|----------------|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H301+H311+H331 | Toxic if swallowed, in contact with skin or if inhaled. |
| H311 | Toxic in contact with skin. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs (eyes, central nervous system). |
| H370 | Causes damage to organs. |

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.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)