

Potassium hydroxide 0.178 mol/l - 0.178 N solution in ethanol 92 vol. % denatured

Revision date: 24.04.2024

Product code: 06081

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

1.1. Product identifier

Potassium hydroxide 0.178 mol/l - 0.178 N solution in ethanol 92 vol. % denatured

UFI:

43UH-0011-V00E-C22H

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

Use of the substance/mixture

Laboratory chemical

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 | |
|--------------------------|------------------------------------|---|
| | ACD | |
| 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, |
| <u>number:</u> | | REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls |

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

- Hazard components for labelling
- potassium hydroxide
- Signal word:

Pictograms:





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Hazard statements

| H225 | Highly flammable liquid and vapour. |
|------|-------------------------------------|
| H290 | May be corrosive to metals. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Precautionary statements

| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|----------------|---|
| P240 | Ground and bond container and receiving equipment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P311 | IF exposed or concerned: Call a POISON CENTER/doctor. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | Chemical name | | | | |
|-----------|---|-----------------------|------------------|-------------|--|--|
| | EC No Index No REACH No | | | | | |
| | Classification (Regulati | on (EC) No 1272/2008) | | | | |
| 64-17-5 | ethanol | | | 85 - < 90 % | | |
| | 200-578-6 | 603-002-00-5 | 01-2119457610-43 | | | |
| | Flam. Liq. 2, Eye Irrit. 2; H225 H319 | | | | | |
| 1310-58-3 | potassium hydroxide | | | 1 - < 5 % | | |
| | 215-181-3 | 019-002-00-8 | 01-2119487136-33 | | | |
| | Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314 | | | | | |

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. Limits, M-factors and ATE | | | | | |
| 64-17-5 | 200-578-6 | 200-578-6 ethanol | | | | |
| | inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 - 100 | | | | | |
| 1310-58-3 | 215-181-3 | potassium hydroxide | 1 - < 5 % | | | |
| | oral: LD50 = 333 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2 | | | | | |

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



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General information

Self-protection of the first aider

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.

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

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

corrosive Irritant Cough Dyspnoea Dizziness The product causes narcotic-like effects. Inebriation Vomiting

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 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 Beware of reignition.

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



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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.

Corrosive to metals.

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. 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 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

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

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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. 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.

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.

Further information on storage conditions

Vapours may form explosive mixtures with air. storage temperature +15°C - +25°C

7.3. Specific end use(s)

Laboratory use Laboratory chemical

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|-----------|---------------------|------|-------|---------|---------------|--------|
| 64-17-5 | Ethyl alcohol | 1000 | - | | STEL (15 min) | |
| 1310-58-3 | Potassium hydroxide | - | 2 | | STEL (15 min) | |

DNEL/DMEL values

| CAS No | Substance | | | | | | | | |
|---|---|----------------|----------|------------------|--|--|--|--|--|
| DNEL type | | Exposure route | Effect | Value | | | | | |
| 64-17-5 | ethanol | | · | | | | | | |
| Worker DNEL | , long-term | inhalation | systemic | 950 mg/m³ | | | | | |
| Worker DNEL | , long-term | dermal | systemic | 343 mg/kg bw/day | | | | | |
| Consumer DN | DNEL, long-term inhalation systemic 114 mg/m³ | | | | | | | | |
| Consumer DN | nsumer DNEL, long-term dermal systemic 206 mg/kg bv | | | | | | | | |
| Consumer DN | IEL, long-term | oral | systemic | 87 mg/kg bw/day | | | | | |
| 1310-58-3 | potassium hydroxide | | | | | | | | |
| Worker DNEL, long-term inhalation local 1 mg/m ³ | | | | | | | | | |
| Consumer DN | IEL, long-term | inhalation | local | 1 mg/m³ | | | | | |



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PNEC values

| CAS No | Substance | | | | | |
|--|---------------------------------------|------------|--|--|--|--|
| Environmental compartment Value | | | | | | |
| 64-17-5 | ethanol | | | | | |
| Freshwater | | 0,96 mg/l | | | | |
| Freshwater (intermittent releases) 2,75 mg/l | | | | | | |
| Marine wate | 0,79 mg/l | | | | | |
| Freshwater sediment 3,6 r | | | | | | |
| Marine sedi | 2,9 mg/kg | | | | | |
| Secondary p | 380 mg/kg | | | | | |
| Micro-organ | isms in sewage treatment plants (STP) | 580 mg/l | | | | |
| Soil | | 0,63 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 Recommended glove articles: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles KCL 720 Camapren® Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with occasional contact (splashes): > 60 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

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

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation The entrepeneur 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



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| 9.1. Information on basic physical and che | emical properties | |
|--|-------------------|-----------------------|
| Physical state: | Liquid | |
| Colour: | clear / yellow | |
| Odour: | like: Ethanol | |
| Odour threshold: | No data available | |
| Melting point/freezing point: | | ~114 °C |
| Boiling point or initial boiling point and | | ~78 °C |
| boiling range: | | |
| Flammability: | | not applicable |
| Lower explosion limits: | | 3,5 vol. % |
| Upper explosion limits: | | 15 vol. % |
| Flash point: | | 12 °C |
| Auto-ignition temperature: | | 425 °C |
| Decomposition temperature: | | not determined |
| pH-Value: | | alkaline |
| Viscosity / kinematic: | | No data available |
| Water solubility: | | Soluble in: Water |
| Solubility in other solvents | | |
| not determined | | |
| Dissolution rate: | | No data available |
| Partition coefficient n-octanol/water: | | No data available |
| Dispersion stability: | | No data available |
| Vapour pressure: | | 59 hPa |
| (at 20 °C) | | |
| Vapour pressure: | | No data available |
| Density: | | ~0,83 g/cm³ |
| Relative density: | | No data available |
| Bulk density: | | No data available |
| Relative vapour density: | | not determined |
| Particle characteristics: | | No data available |
| 9.2. Other information | | |
| Information with regard to physical haz | ard classes | |
| Explosive properties | | |
| Vapours can form explosive mixtures | with air. | |
| Sustaining combustion: | | Sustaining combustion |
| Self-ignition temperature | | |
| Solid: | | not applicable |
| Gas: | | not applicable |
| Oxidizing properties | | |
| Not oxidising. | | |
| Other safety characteristics | | |
| Evaporation rate: | | not determined |
| Solvent separation test: | | No data available |
| Solvent content: | | No data available |
| Solid content: | | not determined |
| Sublimation point: | | No data available |
| Softening point: | | No data available |
| Pour point: | | No data available |

No data available:



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|------------------------------------|--|--|
| Viscosity / dynamic: (at 20 °C) | 1,2 mPa·s | |
| Flow time: | No data available | |
| | | |

Further Information

May be corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable. Vapours can form explosive mixtures with air. May be corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent, Hydrogen peroxide, Nitric acid, Alkali metals, Alkaline earth metal Chlorine, Fluorine, silver, permanganates, e.g. potassium permanganate

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

Glass Plastic articles Metal

10.6. Hazardous decomposition products

Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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| CAS No | Chemical name | Chemical name | | | | | | | | |
|-----------|-------------------------|---------------------|-------|---------|---------------------|--------------------|--|--|--|--|
| | Exposure route | Dose | | Species | Source | Method | | | | |
| 64-17-5 | ethanol | ethanol | | | | | | | | |
| | oral | LD50 mg/kg | 10470 | Rat | Study report (1976) | OECD Guideline 401 | | | | |
| | inhalation (4 h) vapour | LC50 mg/l | 124,7 | Rat | Study report (1980) | OECD Guideline 403 | | | | |
| 1310-58-3 | potassium hydroxide | potassium hydroxide | | | | | | | | |
| | oral | | | | | | | | | |

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation. Serious eye damage/eye irritation: Causes serious eye irritation. Risk of serious damage to eyes.

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. Observe risk of aspiration if vomiting occurs.

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

corrosive Irritant Cough Dyspnoea Dizziness The product causes narcotic-like effects. Inebriation Vomiting Risk of serious damage to eyes. Corneal opacity.



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Further information

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

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 | |
| 64-17-5 | ethanol | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 15400 | 96 h | Lepomis macrochirus | Bulletin of Environmental Contamination | other: EPA-660/3-75-00 9, 1975 | |
| | Acute algae toxicity | ErC50 22000 mg/l | ca. | 96 h | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety 7 | OECD Guideline 201 | |
| | Acute crustacea toxicity | EC50 mg/l | > 10000 | 48 h | Daphnia magna | Water Research 23(4): 495-499 (1989) | other: DIN 38412 Teil 11 | |
| | Algae toxicity | NOEC mg/l | 5400 | 5 d | Skeletonema costatum | Environ Toxicol Chem 8(5):451-455. (1989 | Study to determine the sensitivity of a | |
| | Crustacea toxicity | NOEC | 2 mg/l | 10 d | Ceriodaphnia dubia | Arch Environ Contam Toxicol 20(2):211-21 | Follows the basic methodology for the th | |

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

| 64-17-5 | ethanol | -0,77 |
|---------|---------------|---------|
| CAS No | Chemical name | Log Pow |

| В | С | F |
|---|---|---|
| | | |

| CAS No | Chemical name | BCF | Species | Source |
|---------|---------------|-----|-----------------|----------------------|
| 64-17-5 | ethanol | 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 REACH, annex XIII.

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

No information available.

Further information

Avoid release to the environment.

Do not allow to enter into surface water or drains.



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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) | |
|--|---|
| 14.1. UN number or ID number: | UN 2924 |
| 14.2. UN proper shipping name: | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, potassium |
| | hydroxide) |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3+8 |
| Classification code: | FC |
| Special Provisions: | 274 |
| Limited quantity: | 1L |
| Excepted quantity: | E2 |
| Transport category: Hazard No: | 2 338 |
| Tunnel restriction code: | 536 D/E |
| | DIE |
| Inland waterways transport (ADN) | |
| 14.1. UN number or ID number: | |
| 14.2. UN proper shipping name: | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, potassium hydroxide) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3+8 |
| Classification code: | FC |
| Special Provisions: | 274 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Marine transport (IMDG) | |
| 14.1. UN number or ID number: | UN 2924 |
| 14.2. UN proper shipping name: | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, potassium |
| | hydroxide) |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3+8 |
| Special Provisions: | 274 |
| Limited quantity: | 1L |
| Excepted quantity: | E2 |
| EmS: | F-E, S-C |
| Air transport (ICAO-TI/IATA-DGR) | |
| <u>14.1. UN number or ID number:</u> | UN 2924 |



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| 14.2. UN proper shipping name: | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, potassium hydroxide) | |
| 14.3. Transport hazard class(es): | 3 | |
| 14.4. Packing group: | II | |
| Hazard label: | 3+8 | |
| Special Provisions: | A3 | |
| Limited quantity Passenger: | 0.5 L | |
| Passenger LQ: | Y340 | |
| Excepted quantity: | E2 | |
| IATA-packing instructions - Passenger: | 352 | |
| IATA-max. quantity - Passenger: | 1L | |
| IATA-packing instructions - Cargo: | 363 | |
| IATA-max. quantity - Cargo: | 5 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 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 Directive | P5c FLAMMABLE LIQUIDS | |
| 2012/18/EU (SEVESO III): | | |
| National regulatory information | | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juve | nile |
| Employment restrictions. | work protection guideline' (94/33/EC). | |
| Water hazard class (D): | 1 - slightly hazardous to water | |
| | <u> </u> | |
| SECTION 16: Other information | | |

Changes

This data sheet contains changes from the previous version in section(s): 1,9.



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Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals Flam. Lig: Flammable liquid Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Irrit: Eye irritation 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 according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|---------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data |
| Flam. Liq. 2; H225 | On basis of test data |
| Skin Irrit. 2; H315 | |
| Eye Irrit. 2; H319 | |

Relevant H and EUH statements (number and full text)

| H225 | Highly flammable liquid and vapour. |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye 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.

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