

Perchloric acid 65 - 71% for trace analysis ultra

Revision: 22.08.2025

Product code: AC12.01696

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Perchloric acid 65 - 71% for trace analysis ultra

UFI: 2FK0-13WV-900M-U0RH

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

1.4. Emergency telephone**number:**

+44 20 3807 3798 (CHEMTREC)

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**

Ox. Liq. 1; H271

Met. Corr. 1; H290

Skin Corr. 1A; H314

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

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

perchloric acid

Signal word: Danger

Pictograms:

**Hazard statements**

H271 May cause fire or explosion; strong oxidiser.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P220 Keep/Store away from combustible materials.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

2.3. Other hazards

No data available

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

Mixtures in aqueous solution

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|-----------|---|--------------|----------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 7601-90-3 | perchloric acid | | | 70 - < 75 % |
| | 231-512-4 | 017-006-00-4 | | |
| | Flam. Liq. 3, Ox. Liq. 1, Skin Corr. 1A; H226 H271 H314 | | | |

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 | | |
| 7601-90-3 | 231-512-4 | perchloric acid | 70 - < 75 % | |
| | | oral: LD50 = 200 - 2000 mg/kg Ox. Liq. 1; H271: >= 50 - 100 Ox. Liq. 2; H272: >= 0 - < 50 Skin Corr. 1A; H314: >= 50 - 100 Skin Corr. 1B; H314: >= 10 - < 50 Skin Irrit. 2; H315: >= 1 - < 10 Eye Irrit. 2; H319: >= 1 - < 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**

Self-protection of the first aider

After inhalation

Provide fresh air.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

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

Call a physician immediately.

After contact with eyes

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

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

Irritant

corrosive

Cough

Dyspnoea

Cardiac arrhythmias

Risk of serious damage to eyes.

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

No data available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

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

Unsuitable extinguishing media

no restriction

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5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

Oxidizing

In case of warming: Decomposition with: Danger of explosion

Hazardous combustion products

In case of fire may be liberated:

Hydrogen chloride (HCl)

5.3. Advice for firefighters

Avoid contact with skin, eyes and clothes.

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

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**

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.

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

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7.1. Precautions for safe handling**Advice on safe handling**

Read label before use.
Handle and open container with care.
Provide adequate ventilation.
Avoid contact with skin, eyes and clothes.
Do not breathe vapour/aerosol.
Use extractor hood (laboratory).

Advice on protection against fire and explosion

Keep away from combustible material.

Advice on general occupational hygiene

Take off contaminated clothing.
Wash hands before breaks and after work.
When using do not eat or drink.

Further information on handling

Take off contaminated clothing and wash it before reuse.
Wash hands before breaks and after work.
Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed and dry.
Keep away from combustible material.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Keep away from combustible material.
Take national regulations into account.

Further information on storage conditions

Unsuitable container/equipment material: Light metal, Metal
Keep cool. Protect from sunlight.
storage temperature: +5°C bis +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL/DMEL values**

| CAS No | Substance | Exposure route | Effect | Value |
|-----------|-----------------|----------------|----------|---------------------|
| | DNEL type | | | |
| 7601-90-3 | perchloric acid | oral | systemic | 0,0167 mg/kg bw/day |

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PNEC values

| CAS No | Substance | |
|--|-----------------|-------------|
| Environmental compartment | | Value |
| 7601-90-3 | perchloric acid | |
| Freshwater | | 0,021 mg/l |
| Freshwater (intermittent releases) | | 147 mg/l |
| Marine water | | 0,002 mg/l |
| Freshwater sediment | | 4,67 mg/kg |
| Marine sediment | | 0,467 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 8,2 mg/l |
| Soil | | 0,021 mg/kg |

8.2. Exposure controls**Appropriate engineering controls**

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

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

Suitable eye protection: goggles.

Hand protection

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact

Trade name/designation: KCL 898 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 720 Camapren®

Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm

Wearing time with occasional contact (splashes): > 450 min

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

Skin protection

Wear suitable protective clothing.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

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.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

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

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.

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Environmental exposure controls

Do not allow to enter into surface water or drains.

Danger of explosion

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

| | |
|--|------------------------|
| Physical state: | Liquid |
| Colour: | colourless |
| Odour: | odourless |
| Melting point/freezing point: | -18 °C |
| Boiling point or initial boiling point and boiling range: | 198,7 °C |
| Flammability: | No data available |
| Lower explosion limits: | No data available |
| Upper explosion limits: | No data available |
| Flash point: | X |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| pH-Value: | 0 |
| Viscosity / kinematic: | No data available |
| Water solubility: | Soluble in: Water |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: | No data available |
| Vapour pressure: | No data available |
| Vapour pressure: | No data available |
| Density (at 20 °C): | 1,68 g/cm ³ |
| Bulk density: | No data available |
| Relative vapour density: | No data available |

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

| | |
|---------------------------|-------------------|
| Explosive properties | |
| No data available | |
| Sustained combustibility: | |
| Self-ignition temperature | No data available |
| Solid: | not determined |
| Gas: | not applicable |

Oxidizing properties

The product is: oxidising, Oxidising.
Oxidizing liquids, Category 1

Other safety characteristics

| | |
|--------------------------|-------------------|
| Evaporation rate: | No data available |
| Solvent separation test: | No data available |
| Solvent content: | No data available |
| Solid content: | No data available |
| Sublimation point: | No data available |
| Softening point: | No data available |
| Pour point: | No data available |
| Viscosity / dynamic: | No data available |

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Flow time: No data available

Further Information

Corrosive to metals.

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

Explosive

Oxidizing

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Explosive reaction with:

Hydrogen, Combustible substance

Hydrocarbons, halogenated; Hydrogen halide

Fluorine, Ether

Dimethylsulfoxide (DMSO), Alcohols

Nitriles, Hydrogen chloride (HCl)

Acetic anhydride, Metal

Ethanol, Methanol

Dichloromethane, Phenol

Phosphine, Phosphorus oxides (e.g. P2O5)

Reducing agent, sulphuric acid

iron and steel, coal

Nitric acid, Acetic acid

Exothermic reaction with:

Ketone, Alkali (lye)

Ignition hazard: Hydrogen iodide (HI), Aniline (Formaldehyde)

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Rubber articles

Metal

Light metal

Fat

10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

Further information

No data available

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

There are no data available on the mixture itself.

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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).

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Inhalation effect: Damage to the respiratory tract.

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

| CAS No | Chemical name | | | | |
|-----------|-----------------|-----------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 7601-90-3 | perchloric acid | | | | |
| | oral | LD50 200 - 2000 mg/kg | Rat | Study report (2003) | OECD Guideline 423 |

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

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.

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

There are no data available on the mixture itself.

Further information

Irritant

corrosive

Cough

Dyspnoea

Cardiac arrhythmias

Risk of serious damage to eyes.

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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 |
|-----------|--------------------------|------------------|---------|-----------|---------------------------------|---------------------|--------------------|
| 7601-90-3 | perchloric acid | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1470 | 96 h | Lepomis macrochirus | Publication (2004) | EPA OPPTS 850.1075 |
| | Acute algae toxicity | ErC50 mg/l | > 435,7 | 72 h | Pseudokirchneriella subcapitata | Study report (1998) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | > 100 | 48 h | Daphnia magna | Study report (2004) | OECD Guideline 202 |
| | Acute bacteria toxicity | EC50 mg/l () | > 1000 | 0,5 h | Activated sludge | Study report (1997) | ISO 8192 |

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-----------|-----------------|-----------------|-------------|-----------------------|
| 7601-90-3 | perchloric acid | > 0,12 - < 0,14 | Danio rerio | Chemosphere 65 (2006) |

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

Avoid release to the environment.

Harmful effect due to pH shift.

Further information

Do not allow to enter into surface water or drains.

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

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

Send to a hazardous waste incinerator facility under observation of official regulations.

Do not mix with other wastes.

Do not empty into drains.

Contaminated packaging

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

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

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SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|-----------------|
| 14.1. UN number or ID number: | UN 1873 |
| 14.2. UN proper shipping name: | Perchloric acid |
| 14.3. Transport hazard class(es): | 5.1 |
| 14.4. Packing group: | I |
| Hazard label: | 5.1+8 |
| Classification code: | OC1 |
| Special Provisions: | 60 |
| Limited quantity: | 0 |
| Excepted quantity: | E0 |
| Transport category: | 1 |
| Hazard No: | 558 |
| Tunnel restriction code: | B/E |

Inland waterways transport (ADN)

| | |
|--|-----------------|
| 14.1. UN number or ID number: | UN 1873 |
| 14.2. UN proper shipping name: | Perchloric acid |
| 14.3. Transport hazard class(es): | 5.1 |
| 14.4. Packing group: | I |
| Hazard label: | 5.1+8 |
| Classification code: | OC1 |
| Special Provisions: | 60 |
| Limited quantity: | 0 |
| Excepted quantity: | E0 |

Marine transport (IMDG)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 1873 |
| 14.2. UN proper shipping name: | Perchloric acid |
| 14.3. Transport hazard class(es): | 5.1 |
| 14.4. Packing group: | I |
| Hazard label: | 5.1+8 |
| Special Provisions: | 900 |
| Limited quantity: | 0 |
| Excepted quantity: | E0 |
| EmS: | F-A, S-Q |
| Segregation group: | heavy metals and their salts (including their organometallic compounds) |

Air transport (ICAO-TI/ATA-DGR)

| | |
|--|-----------------|
| 14.1. UN number or ID number: | UN 1873 |
| 14.2. UN proper shipping name: | Perchloric acid |
| 14.3. Transport hazard class(es): | 5.1 |
| 14.4. Packing group: | I |
| Hazard label: | 5.1+8 |
| Limited quantity Passenger: | Forbidden |
| Passenger LQ: | Forbidden |
| Excepted quantity: | E0 |
| IATA-packing instructions - Passenger: | Forbidden |
| IATA-max. quantity - Passenger: | Forbidden |
| IATA-packing instructions - Cargo: | 553 |
| IATA-max. quantity - Cargo: | 2.5 L |

14.5. Environmental hazards

| | |
|----------------------------|----|
| ENVIRONMENTALLY HAZARDOUS: | No |
|----------------------------|----|

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14.6. Special precautions for user

Warning: Oxidising substances.

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):

P8 OXIDISING LIQUIDS AND SOLIDS

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.

Water hazard class (D):

1 - slightly hazardous to water

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 9,11,12.

Abbreviations and acronyms

Ox. Liq. 1: Oxidising liquids, hazard category 1

Met. Corr. 1: Corrosive to metals, hazard category 1

Flam. Liq. 3: Flammable liquids, hazard category 3

Skin Corr. 1A: Skin corrosion, sub-category 1A

Eye Dam. 1: Serious eye damage, 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 |
|---------------------|--------------------------|
| Ox. Liq. 1; H271 | On basis of test data |
| Met. Corr. 1; H290 | On basis of test data |
| Skin Corr. 1A; H314 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.
H271 May cause fire or explosion; strong oxidiser.
H290 May be corrosive to metals.

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H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

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

Provide appropriate information, instructions and training to users

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