

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Cyanide Standard 35mgCN<sup>+</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 1 of 11

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

### 1.1. Product identifier

Cyanide Standard 35mgCN<sup>+</sup>/L

### 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). No data available

### 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: P-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 GmbH  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
E-mail: info@analytichem.de  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.de  
Responsible Department: AnalytiChem:  
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
+353 1 901 4670 (CHEMTREC)

Telefax: 0203/5194-290

### 1.4. Emergency telephone number:

#### Further Information

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Cyanide Standard 35mgCN<sup>-</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 2 of 11

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

Met. Corr. 1; H290

Full text of hazard statements: see SECTION 16.

**2.2. Label elements**

Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:

**Hazard statements**

H290 May be corrosive to metals.

**Precautionary statements**

P234 Keep only in original packaging.  
P390 Absorb spillage to prevent material damage.  
P406 Store in a corrosion-resistant container with a resistant inner liner.

**2.3. Other hazards**

No information 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) |              |                  |          |
| 1310-73-2 | sodium hydroxide                              |              |                  | < 0.5 %  |
|           | 215-185-5                                     | 011-002-00-6 | 01-2119457892-27 |          |
|           | Met. Corr. 1, Skin Corr. 1A; H290 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                                                                                              |                  |          |
| 1310-73-2 | 215-185-5                                                                                                                             | sodium hydroxide | < 0.5 %  |
|           | Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2<br>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).

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Cyanide Standard 35mgCN<sup>+</sup>/L**

Revision: 21.11.2024

Product code: AC18.00718

Page 3 of 11

**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**

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

Wash immediately with: Water

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of eye irritation consult an ophthalmologist.

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

**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**

Irritant

**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

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

Non-combustible liquids

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

Avoid contact with skin, eyes and clothes.

**Additional information**

Suppress gases/vapours/mists with water spray jet.

**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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Cyanide Standard 35mgCN<sup>+</sup>/L**

Revision: 21.11.2024

Product code: AC18.00718

Page 4 of 11

**For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

**6.2. Environmental precautions**

No special environmental measures are necessary.

**6.3. Methods and material for containment and cleaning up****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.

Do not breathe vapour/aerosol.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**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.

**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 before breaks and after work.

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

Keep container tightly closed.

Unsuitable container/equipment material:

Metal

Aluminium

Tin

Zinc

**Hints on joint storage**

national regulations

**Further information on storage conditions**

Store in a dry place.

storage temperature: +15°C - +25°C.

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

Laboratory chemicals

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Cyanide Standard 35mgCN<sup>+</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 5 of 11

**8.1. Control parameters****Occupational exposure limits**

| CAS No    | Substance        | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|-----------|------------------|-----|-------------------|---------------------|---------------|--------|
| 1310-73-2 | Sodium hydroxide | -   | 2                 |                     | STEL (15 min) |        |

**DNEL/DMEL values**

| CAS No                   | Substance        | Exposure route | Effect | Value               |
|--------------------------|------------------|----------------|--------|---------------------|
| 1310-73-2                | sodium hydroxide |                |        |                     |
| Worker DNEL, long-term   |                  | inhalation     | local  | 1 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                  | inhalation     | local  | 1 mg/m <sup>3</sup> |

**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 vapour/aerosol.

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

Wear eye protection/face protection.

Suitable eye protection: goggles.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11 mm

Wearing time with occasional contact (splashes): > 480 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](http://www.kcl.de)).

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Cyanide Standard 35mgCN<sup>-</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 6 of 11

#### Skin protection

Wear suitable protective clothing.

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

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

Discharge into the environment must be avoided.

### 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:                             | No data available |
| Boiling point or initial boiling point and boiling range: | No data available |
| Flammability:                                             | not applicable    |
| 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:                                                 | alkaline          |
| Viscosity / kinematic:                                    | No data available |
| Water solubility:                                         | very soluble      |
| 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:                                                  | No data available |
| 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:

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

Not oxidising.

##### Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Cyanide Standard 35mgCN<sup>-</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 7 of 11

|                      |                   |
|----------------------|-------------------|
| 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: | No data available |
| Flow time:           | No data available |

#### Further Information

Corrosive to metals.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Corrosive to metals.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Metal  
Aluminium  
Tin  
Zinc

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### Further information

No data available

## SECTION 11: Toxicological information

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

#### Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

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

#### 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

#### 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.

slightly irritant but not relevant for classification.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Cyanide Standard 35mgCN<sup>?</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 8 of 11

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****Other information**

There are no data available on the mixture itself.

**Further information**

There are no data available on the mixture itself.

**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                                   |
| 1310-73-2 | sodium hydroxide         |                |           |                  |                                          |                                          |
|           | Acute crustacea toxicity | EC50 40,4 mg/l | 48 h      | Ceriodaphnia sp. | Ecotoxicology and Environmental Safety,4 | other: acute 48-h immobilization test ac |

**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.

**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**

Discharge into the environment must be avoided.

**Further information**

Harmful effect due to pH shift.

**SECTION 13: Disposal considerations**



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Cyanide Standard 35mgCN<sup>-</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 9 of 11

#### 13.1. Waste treatment methods

##### Disposal recommendations

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.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

|                                          |                           |
|------------------------------------------|---------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1824                   |
| <b>14.2. UN proper shipping name:</b>    | SODIUM HYDROXIDE SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                         |
| <b>14.4. Packing group:</b>              | III                       |
| Hazard label:                            | 8                         |
| Classification code:                     | C5                        |
| Limited quantity:                        | 5 L                       |
| Excepted quantity:                       | E1                        |
| Transport category:                      | 3                         |
| Hazard No:                               | 80                        |
| Tunnel restriction code:                 | E                         |

#### Inland waterways transport (ADN)

|                                          |                           |
|------------------------------------------|---------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1824                   |
| <b>14.2. UN proper shipping name:</b>    | SODIUM HYDROXIDE SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                         |
| <b>14.4. Packing group:</b>              | III                       |
| Hazard label:                            | 8                         |
| Classification code:                     | C5                        |
| Limited quantity:                        | 5 L                       |
| Excepted quantity:                       | E1                        |

#### Marine transport (IMDG)

|                                          |                            |
|------------------------------------------|----------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1824                    |
| <b>14.2. UN proper shipping name:</b>    | SODIUM HYDROXIDE, SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                          |
| <b>14.4. Packing group:</b>              | III                        |
| Hazard label:                            | 8                          |
| Special Provisions:                      | 223                        |
| Limited quantity:                        | 5 L                        |
| Excepted quantity:                       | E1                         |
| EmS:                                     | F-A, S-B                   |
| Segregation group:                       | alkalis                    |

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

|                                          |                            |
|------------------------------------------|----------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1824                    |
| <b>14.2. UN proper shipping name:</b>    | SODIUM HYDROXIDE, SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                          |
| <b>14.4. Packing group:</b>              | III                        |
| Hazard label:                            | 8                          |
| Special Provisions:                      | A3 A803                    |
| Limited quantity Passenger:              | 1 L                        |
| Passenger LQ:                            | Y841                       |
| Excepted quantity:                       | E1                         |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Cyanide Standard 35mgCN<sup>+</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 10 of 11

|                                        |      |
|----------------------------------------|------|
| IATA-packing instructions - Passenger: | 852  |
| IATA-max. quantity - Passenger:        | 5 L  |
| IATA-packing instructions - Cargo:     | 856  |
| IATA-max. quantity - Cargo:            | 60 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: strongly corrosive.

**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 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Water hazard class (D): - - non-hazardous to water

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

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

**Abbreviations and acronyms**

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

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

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    |

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

H290 May be corrosive to metals.

H314 Causes severe skin burns and 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,

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Cyanide Standard 35mgCN<sup>-</sup>/L

Revision: 21.11.2024

Product code: AC18.00718

Page 11 of 11

the information on this safety data sheet is not necessarily valid for the new made-up material.

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.)*