

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water

Revision date: 08.09.2023

Product code: 04506

Page 1 of 10

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

##### 1.1. Product identifier

Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water

##### 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                 |                              |
| 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 number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

##### 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

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

###### Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



###### Hazard statements

H319 Causes serious eye irritation.

###### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water**

Revision date: 08.09.2023

Product code: 04506

Page 2 of 10

**2.3. Other hazards**

No data available

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Mixtures in aqueous solution

**Hazardous components**

| CAS No   | Chemical name                                 |              |                  | Quantity    |
|----------|---|--------------|------------------|-------------|
|          | EC No   | Index No     | REACH No         |             |
|          | Classification (Regulation (EC) No 1272/2008) |              |                  |             |
| 497-19-8 | sodium carbonate                              |              |                  | 15 - < 20 % |
|          | 207-838-8                                     | 011-005-00-2 | 01-2119485498-19 |             |
|          | Eye Irrit. 2; H319                            |              |                  |             |

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             |                  |             |
| 497-19-8 | 207-838-8  | sodium carbonate | 15 - < 20 % |
|          | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2800 mg/kg |                  |             |

**Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

No data available

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash immediately with: Water

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

**After contact with eyes**

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

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**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water

Revision date: 08.09.2023

Product code: 04506

Page 3 of 10

#### 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.

#### **Additional information**

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**

##### **For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

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.

#### **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**

Do not breathe vapour/aerosol.

Read label before use.

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water**

Revision date: 08.09.2023

Product code: 04506

Page 4 of 10

**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 contaminated clothing.  
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.  
Store in a dry place.

**Hints on joint storage**

No data available

**Further information on storage conditions**

Store in a dry place.

**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                |
|--------------------------|------------------|----------------|--------|----------------------|
| 497-19-8                 | sodium carbonate |                |        |                      |
| Worker DNEL, long-term   |                  | inhalation     | local  | 10 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                  | inhalation     | local  | 10 mg/m <sup>3</sup> |
| Consumer DNEL, acute     |                  | inhalation     | local  | 10 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.  
Provide adequate ventilation as well as local exhaust at critical locations.

**Individual protection measures, such as personal protective equipment**

**Eye/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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water**

Revision date: 08.09.2023

Product code: 04506

Page 5 of 10

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).

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

|   |                |                         |
|---|----------------|-------------------------|
| Physical state:   | Liquid         |                         |
| Colour:   | colourless     |                         |
| Odour:  | odourless      |                         |
| Odour threshold:  | not determined |                         |
| Melting point/freezing point:                             |                | not determined          |
| Boiling point or initial boiling point and boiling range: |                | not determined          |
| Flammability:   |                | not determined          |
| Lower explosion limits:                                   |                | not determined          |
| Upper explosion limits:                                   |                | not determined          |
| Flash point:  |                | X                       |
| Auto-ignition temperature:                                |                | not determined          |
| Decomposition temperature:                                |                | not determined          |
| pH-Value:   |                | not determined          |
| Viscosity / kinematic:                                    |                | not determined          |
| Water solubility:   |                | 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:  |                | not determined          |
| Vapour pressure:  |                | not determined          |
| Density:  |                | 1,175 g/cm <sup>3</sup> |
| Relative density:   |                | not determined          |
| Bulk density:   |                | not determined          |
| Relative vapour density:                                  |                | not determined          |
| Particle characteristics:                                 |                | not determined          |

**9.2. Other information**

**Information with regard to physical hazard classes**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water

Revision date: 08.09.2023

Product code: 04506

Page 6 of 10

Explosive properties

not applicable

Sustaining combustion:

No data available

Self-ignition temperature

Solid:

not determined

Gas:

not applicable

Oxidizing properties

Not oxidising.

#### Other safety characteristics

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

not determined

Solid content:

not determined

Sublimation point:

not determined

Softening point:

not determined

Pour point:

not determined

not determined:

Viscosity / dynamic:

not determined

Flow time:

not determined

#### Further Information

not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 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

No data available

### 10.6. Hazardous decomposition products

No data available

#### 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water

Revision date: 08.09.2023

Product code: 04506

Page 7 of 10

| CAS No   | Chemical name    |                      |         |                     |   |
|----------|------------------|----------------------|---------|---------------------|---|
|          | Exposure route   | Dose                 | Species | Source              | Method                                  |
| 497-19-8 | sodium carbonate |                      |         |                     |   |
|          | oral             | LD50<br>mg/kg 2800   | Rat     | Study report (1978) | Groups of 5 male and 5 female rats were |
|          | dermal           | LD50<br>mg/kg > 2000 | Rabbit  | Study report (1978) | other: EPA 16 CFR 1500.40               |

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/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

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### Information on likely routes of exposure

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

There are no data available on the mixture itself.

#### Further information

Irritant

## SECTION 12: Ecological information

### 12.1. Toxicity

There are no data available on the mixture itself.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water

Revision date: 08.09.2023

Product code: 04506

Page 8 of 10

| CAS No   | Chemical name            |                     |           |                     |  |  |
|----------|--------------------------|---------------------|-----------|---------------------|--|--|
|          | Aquatic toxicity         | Dose                | [h]   [d] | Species             | Source                                   | Method                                   |
| 497-19-8 | sodium carbonate         |                     |           |                     |  |  |
|          | Acute fish toxicity      | LC50 300 mg/l       | 96 h      | Lepomis macrochirus | Proc. 13th Ind. Waste Conf., Purdue Univ | Method: Recommendations of the Committee |
|          | Acute crustacea toxicity | EC50 200 - 227 mg/l | 48 h      | Ceriodaphnia sp.    | Ecotoxicol. Environ. Saf., 44, 196-206 ( | Method: method developed by NSW Environm |

**12.2. Persistence and degradability**

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

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**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**

There are no data available on the mixture itself.

**Further information**

Discharge into the environment must be avoided.  
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 physico-chemical treatment facility under observation of official regulations. 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.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water**

Revision date: 08.09.2023

Product code: 04506

Page 9 of 10

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

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

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**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 75

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

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Changes**

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

**Abbreviations and acronyms**

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%

Eye Irrit: Eye irritation

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

|                    |                          |
|--------------------|--------------------------|
| Classification     | Classification procedure |
| Eye Irrit. 2; H319 | Calculation method       |

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Sodium carbonate solution 200 g/l for analysis as Na<sub>2</sub>CO<sub>3</sub> in water

Revision date: 08.09.2023

Product code: 04506

Page 10 of 10

H319

Causes serious eye irritation.

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