

## Safety Data Sheet

according to UK REACH Regulation

### 1-Amino-2-naphthol-4-sulfonic acid solution 1.5 g/l with 90 g sodium hydrogen sulfite + 7 g sodium s

Revision date: 10.10.2022

Product code: 19946

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

##### 1.1. Product identifier

1-Amino-2-naphthol-4-sulfonic acid solution 1.5 g/l with 90 g sodium hydrogen sulfite + 7 g sodium s

UFI: SF7S-K104-H00Y-V8K1

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

###### Use of the substance/mixture

Laboratory chemicals

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:           | Fa. Bernd Kraft GmbH            |                              |
| Street:                 | Stempelstraße 6                 |                              |
| Place:                  | D-47167 Duisburg                |                              |
| Telephone:              | 0203/5194-0                     | Telefax: 0203/5194-290       |
| e-mail:                 | info@berndkraft.de              |                              |
| Contact person:         | Abteilung Produktsicherheit     | Telephone: 0203/5194-107/117 |
| e-mail:                 | produktsicherheit@berndkraft.de |                              |
| Internet:               | www.berndkraft.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

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

#### SECTION 2: Hazards identification

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

###### GB CLP Regulation

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

###### GB CLP Regulation

###### Hazard components for labelling

sodium hydrogensulphite; sodium bisulphite 8,57 %

Signal word: Danger

Pictograms:



###### Hazard statements

H318

Causes serious eye damage.

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**Precautionary statements**

- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- 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

**Hazardous components**

| CAS No    | Chemical name                              |              |                  | Quantity   |
|-----------|--|--------------|------------------|------------|
|           | EC No                                      | Index No     | REACH No         |            |
|           | Classification (GB CLP Regulation)         |              |                  |            |
| 7631-90-5 | sodium hydrogensulphite . . . %            |              |                  | 5 - < 10 % |
|           | 231-548-0                                  | 016-064-00-8 | 01-2119524563-42 |            |
|           | Acute Tox. 4, Eye Dam. 1; H302 H318 EUH031 |              |                  |            |

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 |            |
| 7631-90-5 | 231-548-0  | sodium hydrogensulphite . . . %          | 5 - < 10 % |
|           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1420 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**

Take off immediately all contaminated clothing.

**After inhalation**

Provide fresh air.  
Call a doctor if you feel unwell.

**After contact with skin**

Take off immediately all contaminated clothing and wash it before reuse.  
In case of skin irritation, consult a physician.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Protect uninjured eye.

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#### After ingestion

Never give anything by mouth to an unconscious person or a person with cramps.  
Call a physician immediately.

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

Irritant — skin irritation and eye damage

#### 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

Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NO<sub>x</sub>)

Sulphur oxides

### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases.

Avoid contact with skin, eyes and clothes.

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

#### Additional information

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

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

## 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

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.

### 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.

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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).

Provide adequate ventilation.

Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Make available sufficient washing facilities

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

Draw up and observe skin protection programme.

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

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

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

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in a cool place.

Store in a well-ventilated place. Keep container tightly closed.

#### Hints on joint storage

national regulations

#### 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

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**Exposure limits (EH40)**

| CAS No    | Substance                | ppm | mg/m <sup>3</sup> | fibres/ml | Category  | Origin |
|-----------|--------------------------|-----|-------------------|-----------|-----------|--------|
| 7631-90-5 | Sodium hydrogen sulphite | -   | 5                 |           | TWA (8 h) | WEL    |

**DNEL/DMEL values**

| CAS No    | Substance                       | Exposure route | Effect   | Value                 |
|-----------|---------------------------------|----------------|----------|-----------------------|
| 7631-90-5 | sodium hydrogensulphite . . . % |                |          |                       |
|           | Worker DNEL, long-term          | inhalation     | systemic | 246 mg/m <sup>3</sup> |
|           | Consumer DNEL, long-term        | inhalation     | systemic | 73 mg/m <sup>3</sup>  |
|           | Consumer DNEL, long-term        | oral           | systemic | 9,5 mg/kg bw/day      |

**PNEC values**

| CAS No    | Substance  | Value      |
|-----------|--|------------|
| 7631-90-5 | sodium hydrogensulphite . . . %                  |            |
|           | Freshwater                                       | 1,09 mg/l  |
|           | Marine water                                     | 0,11 mg/l  |
|           | Micro-organisms in sewage treatment plants (STP) | 10,71 mg/l |

**8.2. Exposure controls**

**Appropriate engineering controls**

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

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

Do not breathe gas/fumes/vapour/spray.

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

**Eye/face protection**

goggles

**Hand protection**

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

By long-term hand contact

Trade name/designation KCL 741 Dermatril® L

Suitable 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

Suitable 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)).

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**Skin protection**

- Wear suitable protective clothing.
- Take off immediately all contaminated clothing.
- Wash hands before breaks and after work.

**Respiratory protection**

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

**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:   | brown     |                           |
| Odour:  | odourless |                           |
| Melting point/freezing point:                             |           | No data available         |
| Boiling point or initial boiling point and boiling range: |           | No data available         |
| Flammability  |           |                           |
| Solid/liquid:   |           | No data available         |
| Gas:  |           | No data available         |
| Lower explosion limits:                                   |           | No data available         |
| Upper explosion limits:                                   |           | No data available         |
| Flash point:  |           | No data available         |
| Auto-ignition temperature:                                |           | No data available         |
| Decomposition temperature:                                |           | No data available         |
| pH-Value:   |           | 5,1                       |
| Viscosity / kinematic:                                    |           | No data available         |
| Water solubility:   |           | No data available         |
| Solubility in other solvents                              |           |                           |
| No data available   |           |                           |
| Partition coefficient n-octanol/water:                    |           | No data available         |
| Vapour pressure:  |           | No data available         |
| Vapour pressure:  |           | No data available         |
| Density:  |           | 1,07018 g/cm <sup>3</sup> |
| 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         |                   |
| Sustaining combustion:    | No data available |
| Self-ignition temperature |                   |
| Solid:                    | No data available |
| Gas:                      | No data available |
| Oxidizing properties      |                   |
| No data available         |                   |

**Other safety characteristics**

|                          |                   |
|--------------------------|-------------------|
| Evaporation rate:        | No data available |
| Solvent separation test: | No data available |

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Solid content: 0  
 Sublimation point: No data available  
 Softening point: No data available  
 Pour point: No data available  
 No data available:  
 Viscosity / dynamic: No data available  
 Flow time: No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

No data available

**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**

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 as defined in GB CLP Regulation**

**Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

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

| CAS No    | Chemical name                   |                         |         |                     |                    |
|-----------|---------------------------------|-------------------------|---------|---------------------|--------------------|
|           | Exposure route                  | Dose                    | Species | Source              | Method             |
| 7631-90-5 | sodium hydrogensulphite . . . % |                         |         |                     |                    |
|           | oral                            | LD50<br>mg/kg<br>1420   | Rat     | Study report (1987) | OECD Guideline 401 |
|           | dermal                          | LD50<br>mg/kg<br>> 2000 | Rat     | Study report (2009) | OECD Guideline 402 |

**Irritation and corrosivity**

Causes serious eye damage.  
 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.

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**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.  
No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No data available

**Other information**

No data available

**Further information**

No data available

**SECTION 12: Ecological information**

**12.1. Toxicity**

| CAS No    | Chemical name                   |                         |           |   |                     |  |
|-----------|---------------------------------|-------------------------|-----------|---|---------------------|--|
|           | Aquatic toxicity                | Dose                    | [h]   [d] | Species   | Source              | Method                                   |
| 7631-90-5 | sodium hydrogensulphite . . . % |                         |           |   |                     |  |
|           | Acute fish toxicity             | LC50 > 215 - < 464 mg/l | 96 h      | Leuciscus idus                                      | Study report (1989) | other: German industrial standard test g |
|           | Acute algae toxicity            | ErC50 43,8 mg/l         | 72 h      | Desmodesmus subspicatus                             | Study report (1989) | OECD Guideline 201                       |
|           | Acute crustacea toxicity        | EC50 89 mg/l            | 48 h      | Daphnia magna                                       | Study report (1990) | other: 79/831/EEC, appendix V, part C    |
|           | Fish toxicity                   | NOEC >= 316 mg/l        | 34 d      | Danio rerio   | Study report (2010) | OECD Guideline 210                       |
|           | Crustacea toxicity              | NOEC > 10 mg/l          | 21 d      | Daphnia magna                                       | Study report (1993) | OECD Guideline 211                       |
|           | Acute bacteria toxicity         | (EC50 > 1000 mg/l)      | 3 h       | activated sludge of a predominantly domestic sewage | Study report (2010) | OECD Guideline 209                       |

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available



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#### **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 UK REACH.

No data available

#### **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.

No data available

#### **12.7. Other adverse effects**

No data available

#### **Further information**

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

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

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

Do not allow to enter into surface water or drains.

##### **Contaminated packaging**

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:**

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.

#### **Inland waterways transport (ADN)**

##### **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.

#### **Marine transport (IMDG)**

##### **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.

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**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**

No dangerous good in sense of this transport regulation.

**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

**National regulatory information**

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.

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

|                  |                          |
|------------------|--------------------------|
| Classification   | Classification procedure |
| Eye Dam. 1; H318 | Calculation method       |

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

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
EUH031 Contact with acids liberates toxic gas.

**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.

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