

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 1 of 9

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

1.1 Product identifier

WIN L 4130 UO

Further trade names

CERTDOS 4130 UO

UFI: CYCP-M3FC-Y00A-M7QV

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

Use of the substance/the mixture

Combination product for boiler water treatment
Boiler descaling agent, oxygen binding agent

1.3. Details of the supplier who provides the safety data sheet

| | |
|-----------------------|---|
| Company name: | CERTUSS GmbH |
| Street: | Hafenstr. 65 |
| City: | D-47809 Krefeld |
| Phone: | +49 (0) 2151 578-0 |
| Contact partner: | Mr. Hamacher |
| E-mail: | t.hamacher@certuss.com |
| Informing department: | Technical Director |
| | Monday to Thursday from 9 – 16 (9 a.m. to 4 p.m.), Friday 9 – 14 (9 a.m. to 2 p.m.) |
| Emergency number | DE: GIZ-Nord +49 (0)551 - 19240 AUT: +43 1 406 43 43 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Corr. 1; H314

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

sodium metabisulphite

sodium hydroxide; caustic soda

Signal word: Danger**Pictograms:**

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash Hände thoroughly after handling.

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 2 of 9

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

Special labelling of certain mixtures

P310 Contact with acids liberates toxic gas.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS-No. | Chemical name | | | Quantity |
|-----------|--|--------------|------------------|----------|
| | EC No. | Index No. | REACH No. | |
| | Classification (GB CLP Regulation) | | | |
| 7681-57-4 | sodium metabisulphite | | | 5 – 10 % |
| | 231-673-0 | 016-063-00-2 | | |
| | Acute Tox. 4, Eye Dam. 1; H302 H318 EUH301 | | | |
| 1310-73-2 | sodium hydroxide; caustic soda | | | 1 – 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 | | |
| 7681-57-4 | 231-673-0 | sodium metabisulphite | 5 – 10 % |
| | oral: LD50 = 1130 mg/kg | | |
| 1310-73-2 | 215-185-5 | sodium hydroxide; caustic soda | 1 – < 5 % |
| | Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2 | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

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.

After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No information available.

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

Treat symptomatically.

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 3 of 9

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

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

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

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

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 cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Hints on joint storage

Do not store together with: Acid.

7.3. Specific end use(s)

Combination product for boiler water treatment
Boiler descaling agent, oxygen binding agent

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 4 of 9

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|---------------------|-----|-------------------|-----------|---------------|--------|
| 7681-57-4 | Disodium disulphite | – | 5 | | TWA (8 h) | WEL |
| 1310-73-2 | Sodium hydroxide | – | 2 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|----------------------------|--------------------------------|----------------|--------|---------------------|
| 1310-73-2 | sodium hydroxide; caustic soda | | | |
| Worker DNEL, long-term | | inhalation | local | 1 mg/m ³ |
| Consumer DNEL, langfristig | | inhalation | local | 1 mg/m ³ |

PNEC values

| CAS No | Substance | Environmental compartment | PNEC |
|-----------|--------------------------------|---------------------------|------|
| 1310-73-2 | sodium hydroxide; caustic soda | Freshwater | |

8.2. Exposure controls



Appropriate engineering controls

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

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.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|------------|
| Physical state: | liquid |
| Colour: | colourless |
| Odour:: | stinging |

Test method

| | |
|---|----------------|
| Melting point/freezing point: | -4 °C |
| Boiling point or initial boiling point and boiling range: | 100 °C |
| Flammability: | not determined |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 5 of 9

| | |
|--|------------------------|
| Flash point: | not determined |
| Decomposition temperature: | not determined |
| pH-Value (at 20 °C): | 12,0 |
| Viscosity/kinematic: | ISO 3219 |
| Water solubility: | completely miscible |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | not determined |
| Density (at 20 °C): | 1,08 g/cm ³ |
| Relative vapour density: | not determined |
| Particle characteristics: | not applicable |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined

Solvent content: 0,0 %

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Possibility of hazardous reactions. Reaction with: Acid.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Peroxides, Oxidizing agent.

10.4. Conditions to avoid

none

10.5. Incompatible materials

Keep away from: Acid, Oxidizing agent, Peroxides.

10.6. Hazardous decomposition products

Contact with acids liberates toxic gas.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

ATEmix calculated

ATE (oral) 21321 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Acute toxicity

| CAS No. | Chemical name | | | | |
|-----------|-----------------------|-----------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 7681-57-4 | sodium metabisulphite | | | | |
| | oral | LD50 1130 mg/kg | Rat | GESTIS | |

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 6 of 9

11.2. Information on other hazards

Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

| CAS No. | Chemical name | | | | | | |
|-----------|-----------------------|------|----------------|------|----------------------|--------|--------|
| | Aquatic toxicity | Dose | [h] | [d] | Species | Source | Method |
| 7681-57-4 | sodium metabisulphite | | | | | | |
| | Acute fish toxicity | LC50 | 150 - 220 mg/l | 96 h | Onchorhynchus mykiss | | |

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 3266

14.2. UN proper shipping name:

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8



Classification code:

C5

Special Provisions:

274

Limited quantity:

1 L

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 7 of 9

Excepted quantity: E2
 Transport category: 2
 Hazard No: 80
 Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3266
14.2. UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Classification code: C5
 Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 3266
14.2. UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-A, S-B
 Segregation group: 2 – ammonium compounds

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3266
14.2. UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: A3 A803
 Limited quantity Passenger: 0.5 L
 Passenger LQ: Y840
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 851
 IATA-max. quantity - Passenger: 1 L
 IATA-packing instructions - Cargo: 855

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 8 of 9

IATA-max. quantity - Cargo: 30 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

Other applicable information

Hazchem code: 2X

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 Directive 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

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**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)

Met. Corr: Corrosive to metals

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Eye Dam: Eye damage

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 I

ATA: 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%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

EC/EEC: European Community/European Economic Community

EU: European Union

DNEL: Derived No Effect Level

Safety Data Sheet

according to UK REACH Regulation

WIN L 4130 UO

Print date: 02. 01. 2025

Product code: 4130UO

Page 9 of 9

| | |
|---------|---|
| DMEL: | Derived Minimal Effect Level |
| PNEC: | Predicted No Effect Concentration |
| ATE: | Acute toxicity estimate |
| LL50: | Lethal loading, 50% |
| EL50: | Effect loading, 50% |
| EC50: | Effective Concentration 50% |
| ErC50: | Effective Concentration 50%, growth rate |
| NOEC: | No Observed Effect Concentration |
| BCF: | Bio-concentration factor |
| PBT: | persistent, bioaccumulative, toxic |
| vPvB: | very persistent, very bioaccumulative M-factor: Multiplying factor |
| RID: | Regulations concerning the international carriage of dangerous goods by rail |
| ADN: | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) |
| EmS: | Emergency Schedules |
| MFAG: | Medical First Aid Guide |
| IATA: | International Air Transport Association |
| DGR: | Dangerous Goods Regulations |
| ICAO: | International Civil Aviation Organization |
| TI: | Technical Instructions |
| MARPOL: | International Convention for the Prevention of Marine Pollution from Ships |
| IBC: | Intermediate Bulk Container |
| SVHC: | Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). |

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

| Classification | Classification procedure |
|--------------------|--------------------------|
| Skin Corr. 1; H314 | On basis of test data |
| Eye Dam. 1; H318 | On basis of test data |

Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| EUH031 | Contact with acids liberates toxic gas. |

Further Information

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.)

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