

EC Safety Data Sheet

according to regulation (EC) no. 1907/2006

WIN L 4130

Print date: 18. 10. 2023

Product code: 4130

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

1.1 Product identifier

WIN L 4130

Further trade names

CERTDOS 4130

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 Dampfautomaten GmbH & Co. KG
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.

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

P363 Wash contaminated clothing before reuse.

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- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER/doctor.
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.
P405 Store locked up.
P501 Dispose of contents/container to geregelter Entsorgung.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

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		
	Skin Corr. 1A; H314			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS-Nr.	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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection! Move victim out of danger zone. Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

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

After ingestion

Rinse mouth immediately and drink plenty of water.

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.

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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. In case of fire may be liberated: Sulphur dioxide (SO₂).. Sulphur trioxide

5.3. Advice for firefighters

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

Additional information

In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

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

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

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

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.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

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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

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

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

Wear suitable 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:	yellow
Odour:	odourless
Melting point/freezing point:	-4 °C
Boiling point or initial boiling point and boiling range:	100 °C
Flammability :	not applicable
	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	not determined
Decomposition temperature:	not determined
pH-Value (at 20 °C):	12,6
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):	1,14 g/cm ³
Relative vapour density:	not determined

9.2. Other information

Solid content:	not determined
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Information with regard to physical hazard classes

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

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

No hazardous reaction when handled and stored according to provisions.

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, Oxidising agent.

10.4. Conditions to avoid

none

10.5. Incompatible materials

Keep away from: Acid, Oxidising agent, Peroxides.

10.6. Hazardous decomposition products

sulfur dioxide

SECTION 11: Toxicological information

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

ATEmix calculated

ATE (oral) 12555,6 mg/kg

Acute toxicity

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

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.

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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.

List of Wastes Code - residues/unused products

070799 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; wastes not otherwise specified

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of these transport regulations.
<u>14.4. Packing group:</u>	No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of these transport regulations.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of these transport regulations.
<u>14.4. Packing group:</u>	No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of these transport regulations.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of these transport regulations.
<u>14.4. Packing group:</u>	No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of these transport regulations.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of these transport regulations.
<u>14.4. Packing group:</u>	No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No.

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14.6. Special precautions for user

No information available.

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

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)
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 E
LINCS:	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 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)

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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Confirmation

The above-mentioned products serves as an aid in treating boiler feed-water.

It is used for hardness stabilization and oxygen scavenging.

The product fulfils Sections 30 and 31 of the Foodstuffs and Consumer Goods Law.

The product WIN-L-4130 may thus be used as an aid for steam generation in the foodstuffs industry and in air moistening systems as well as district heating plants.

WIN-L-4130 is not steam-volatile and does not contain AOX.

WIN-L-4130 is a compound of sodium salt of a polyacrylic acid, sodium sulfite and caustic lye of soda in an aqueous solution.

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