

## **WIN L 4135 UOS**

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

#### 1.1 Product identifier

WIN L 4135 UOS

#### Further trade names

CERTDOS 4135 UOS

UFI: 4CHP-E3NM-K00J-CNF5

#### 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 and steam alkalizing agent

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

Company name: CERTUSS GmbH Hafenstr. 65 Street: D-47809 Krefeld City: +49 (0) 2151 578-0 Phone: 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.)

DE: GIZ-Nord +49 (0)551 -19240 Emergency number

AUT: +43 1 406 43 43

#### **SECTION 2: Hazards identification**

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

### **GB CLP Regulation**

Skin Irrit. 1B; 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

morpholine

Signal word: Warning

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

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.



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#### Special labelling of certain mixtures

EUH031 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						
	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 EUH031						
110-91-8	morpholine			1 – 5 %			
	203-815-1	613-028-00-9					
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H226 H332 H312 H302 H314						
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 No	EC No	Chemical name	Quantity				
	Specific Conc. Lin	Specific Conc. Limits, M-factors and ATE					
7681-57-4	231-673-0	sodium metabisulphite	5 - < 10 %				
	oral: LD50 = 1130 mg/kg						
110-91-8	203-815-1	morpholine	1 – 5 %				
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 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.

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 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.



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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.

#### 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 exhaustion 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 and steam alkalizing agent



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

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7681-57-4	Disodium disulphite	_	5		TWA (8 h)	WEL
110-91-8	Morpholine	10	36		TWA (8 h)	WEL
		20	72		STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	_	2		STEL (15 min)	WEL

#### 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: specific

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 Flash point: not determined not determined Auto-ignition temperature: Decomposition temperature: not determined

pH-Value (at 20 °C):

Viscosity / kinematic: not determined 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): 1,07 g/cm<sup>3</sup> Relative vapour density: not determined Particle characteristics: not applicable



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#### 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

Solid content:

not determined

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reaction with: Acid.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

#### 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) 15148 mg/kg; ATE (dermal) 110000 mg/kg; ATE (inhalation vapour) 1100 mg/l; ATE (inhalation dust/mist) 150,0 mg/l

#### Acute toxicity

CAS No.	Chemical name							
	Exposition route	Dose		Species	Source	Method		
7681-57-4	sodium metabisulphite	sodium metabisulphite						
	oral	LD50	1130 mg/kg	Rat	GESTIS			
110-91-8	morpholine							
	oral	ATE	500 mg/kg					
	dermal	ATE	1100 mg/kg					
	inhalative vapour	ATE	11 mg/l					
	inhalative dust/mist	ATE	1,5 mg/l					

#### 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 métabisulphite							
	Acute fish toxicity	LC50	150 - 220 mg/l	96 l	h	Onchorhynchus mykiss		



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#### 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:

14.2. UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. (morpholine)

14.3. Transport hazard class(es): Ш 14.4. Packaging group: Hazard label:



Classification code: **C**7 Specific provisions: 274 Limited quantity: 1 L Excepted quantity: E2 Transport category: 2 Hazard No.: 80 Tunnel restriction code: Ε

#### Inland waterways transport (ADN)

14.1. UN-Number or ID number:

AMINES, LIQUID, CORROSIVE, N.O.S. (morpholine) 14.2. UN proper shipping name

14.3. Transport hazard class(es): Ш 14.4. Packaging group: Hazard label:



Classification code: C7 Specific provisions: 274 Limited quantity: 1 L Excepted quantity: E2



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Marine transport (IMDG)

14.1. UN-Number or ID number: UN 2735

14.2. UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. (morpholine)

14.3. Transport hazard class(es): 14.4. Packaging group: Ш Hazard label:



Special Provisions: 274 Limited quantity Passenger: 1 L Excepted quantity: E2 EmS: F-A, S-B Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

UN 2735 14.1. UN-Number or ID number:

14.2. UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. (morpholine)

14.3. Transport hazard class(es): Ш 14.4. Packaging group: 8 Hazard lahel:



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 IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

**ENVIRONMENTAL 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 40, Entry 75

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

National regulatory information

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

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.



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#### **SECTION 16: Other information**

#### Abbreviations and acronyms

Flam. Liq: Flammable liquids 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

International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals IATA:

**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

RFACH: Registration, Evaluation and Authorization of Chemicals

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

UN: **United Nations** 

FC/FFC: European Community/European Economic Community

EU: European Union DNFI: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate Lethal loading, 50% LL50: EL50: Effect loading, 50% EC50: Effective Concentration 50%

FrC50: 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

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport ADN:

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

**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	į
Skin Corr. 1; H314	Calculation method	1
Eye Dam. 1; H318	Calculation method	,



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

Flammable liquid and vapour. H226 H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

EUH301 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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