

Safety Data Sheet

AQUATREAT® 691

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Chemical type : Mixture
Name : AQUATREAT® 691

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.2.1. Relevant identified uses

Use of the substance/mixture : Product for boiler water treatment

Title	Sector of use	Product category	Process category	Article category	Environmental release	SPERC
Industrial use of water treatment products	SU0, SU3, SU5, SU22, SU23	PC37	PROC2, PROC4, PROC8a, PROC8b, PROC9		ERC4	ESVOC SPERC 3.22a.v1

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

International Aquatreat company bvba
Industrial Zone B 122 - Nieuwlandlaan 40/42
3200 AARSCHOT - Belgium
T +32 (0)16 562121
aquatreat@aquatreat.be - www.aquatreat.eu

1.4. EMERGENCY TELEPHONE NUMBER

No additional information available

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Met. Corr. 1 H290
Skin Corr. 1B H314

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. LABEL ELEMENTS

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

CLP Signal word : Danger
Hazard statements (CLP) : H290 - May be corrosive to metals

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	H314 - Causes severe skin burns and eye damage
Precautionary statements (CLP)	: P234 - Keep only in original container P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting 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 or doctor/physician P390 - Absorb spillage to prevent material damage
EUH-statements	: EUH031 - Contact with acids liberates toxic gas

2.3. OTHER HAZARDS

This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation, annex XIII

Other hazards not contributing to the classification : None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCE

Not applicable

3.2. MIXTURE

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydrogensulphite ... %, sodium bisulphite ... %	(CAS No) 7631-90-5 (EC no) 231-548-0 (EC index no) 016-064-00-8 (REACH-no) 01-2119524563-42-0000	< 25	Acute Tox. 4 (Oral), H302
sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-2119457892-27-0000	2 - 5	Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

First-aid measures after inhalation	: Move the person to fresh air.
First-aid measures after skin contact	: Wash immediately with lots of water.
First-aid measures after eye contact	: Wash immediately with lots of water (15 minutes).
First-aid measures after ingestion	: Immediately after ingestion: give lots of water to drink. Seek medical advice immediately.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No additional information available

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No additional information available

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SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media : Powder. Foam. Water.
Unsuitable extinguishing media : Not specified.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Reactivity : Generates toxic gas in contact with acid (SO₂). Heating up due to reaction with acids is possible.

5.3. ADVICE FOR FIREFIGHTERS

No additional information available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General measures : Protective clothing.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. ENVIRONMENTAL PRECAUTIONS

Plug the leak, cut off the supply. Prevent soil and water pollution.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

6.4. REFERENCE TO OTHER SECTIONS

No additional information available

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling : Keep packing tightly closed.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions : Keep container in a well ventilated place.

7.3. SPECIFIC END USE(S)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

No additional information available

8.2. EXPOSURE CONTROLS

Hand protection : Gloves.
Eye protection : Protective goggles.
Skin and body protection : Wear suitable gloves, resistant to chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

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Appearance	: Clear.
Colour	: Colourless.
Odour	: Smell of ammonia.
Odour threshold	: No data available
pH	: > 11
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,17 +/- 0,02
Solubility	: Water solubility: 100%. Water: Completely soluble
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. OTHER INFORMATION

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

Generates toxic gas in contact with acid (SO₂). Heating up due to reaction with acids is possible.

10.2. CHEMICAL STABILITY

Stable at normal conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No additional information available

10.4. CONDITIONS TO AVOID

Freezing. (strong) acids.

10.5. INCOMPATIBLE MATERIALS

No additional information available

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No additional information available

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity : Not classified

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LD50 oral rat	> 20000 mg/kg
ATE CLP (oral)	4885,000 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: > 11

Serious eye damage/irritation : Serious eye damage, category 1, implicit
pH: > 11

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Other information : Ammonium carbonate and ammonium bicarbonate can be present in steam. Are admitted as food additives : R.D. 01.03.1998, App. I, E503i and E503ii.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Ecology - water : Readily biodegradable in water

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EC50 Daphnia 1	> 1000 mg/l (25h)

sodium hydroxide (1310-73-2)	
LC50 fish 1	35 - 189 mg/l
EC50 Daphnia 1	40 mg/l

12.2. PERSISTENCE AND DEGRADABILITY

No additional information available

12.3. BIOACCUMULATIVE POTENTIAL

No additional information available

12.4. MOBILITY IN SOIL

No additional information available

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

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This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation, annex XIII

12.6. OTHER ADVERSE EFFECTS

No additional information available

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Ecology - waste materials : Do not discharge into drains or the environment. Refer to manufacturer/supplier for information on recovery/ recycling.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN NUMBER

UN-No. (ADR) : 1824

14.2. UN PROPER SHIPPING NAME

Proper Shipping Name (ADR) : SODIUM HYDROXIDE SOLUTION

Transport document description (ADR) : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)

14.3. TRANSPORT HAZARD CLASS(ES)

Class (ADR) : 8

Danger labels (ADR) : 8



14.4. PACKING GROUP

Packing group (UN) : II

14.5. ENVIRONMENTAL HAZARDS

Other information : No supplementary information available.

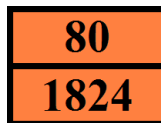
14.6. SPECIAL PRECAUTIONS FOR USER

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Classification code (ADR) : C5

Orange plates :



Tunnel restriction code (ADR) : E

Excepted quantities (ADR) : E2

EAC code : 2R

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not applicable

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SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.1.1. EU-Regulations

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. CHEMICAL SAFETY ASSESSMENT

No additional information available

SECTION 16: OTHER INFORMATION

Other information : The contents and format of this material safety data sheet are in accordance with REACH 1907/2006 and CLP-EU 1272/2008. All the given information is correct to our current knowledge. None of the indications, compositions or applications have the intention of violating existing patents. Nothing may be duplicated and/or multiplied without our written consent.

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
EUH031	Contact with acids liberates toxic gas
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ESVOC SPERC 3.22a.v1	Water treatment chemicals: Industrial (SU10)
PC37	Water treatment chemicals
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU0	Other
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU23	Electricity, steam, gas water supply and sewage treatment
SU3	Industrial uses: Uses of substances as such or in preparations* at industrial sites
SU5	Manufacture of textiles, leather, fur

REACH SDS Aquatreat

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product