

Safety Data Sheet

AQUATREAT® 709

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

1.1. PRODUCT IDENTIFIER

Chemical type : Mixture
Name : AQUATREAT® 709

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 : Corrosion inhibitor for steam- and condensate lines

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]

Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation) H332
Skin Corr. 1B H314
Eye Dam. 1 H318
Repr. 2 H361f
STOT RE 2 H373
Aquatic Chronic 3 H412

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

Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

AQUATREAT® 709

2.2. LABEL ELEMENTS

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

Hazard pictograms (CLP) :



CLP Signal word :

Danger

Hazard statements (CLP) :

H302+H332 - Harmful if swallowed or if inhaled
H314 - Causes severe skin burns and eye damage
H361f - Suspected of damaging fertility
H373 - May cause damage to organs (blood, liver, kidneys) through prolonged or repeated exposure (if swallowed)
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) :

P201 - Obtain special instructions before use
P260 - Do not breathe vapours
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face 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
P308+P313 - IF exposed or concerned: Get medical advice/attention

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]
cyclohexylamine	(CAS No) 108-91-8 (EC no) 203-629-0 (EC index no) 612-050-00-6 (REACH-no) 01-2119486803-29-0000	10 - 25	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Repr. 2, H361fd
2,2'-iminodiethanol, diethanolamine	(CAS No) 111-42-2 (EC no) 203-868-0 (EC index no) 603-071-00-1 (REACH-no) 01-2119488930-28-0000	>= 25	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

Safety Data Sheet

AQUATREAT® 709

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

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 : 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

Safety Data Sheet

AQUATREAT® 709

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
Appearance : Clear.
Colour : Colourless.
Odour : Amine.
Odour threshold : No data available
pH : > 11
Melting point : -5 °C
Freezing point : No data available
Boiling point : > 100 °C
Flash point : 80 °C
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 : 1,02 +/- 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

Heating up due to reaction with acids is possible.

10.2. CHEMICAL STABILITY

No additional information available

Safety Data Sheet

AQUATREAT® 709

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No additional information available

10.4. CONDITIONS TO AVOID

(strong) acids.

10.5. INCOMPATIBLE MATERIALS

No additional information available

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No additional information available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity : Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.

AQUATREAT® 709	
LD50 oral rat	= 2000 mg/kg
ATE CLP (oral)	1741,000 mg/kg bodyweight
ATE CLP (vapours)	13,500 mg/l/4h
cyclohexylamine (108-91-8)	
ATE CLP (oral)	100,000 mg/kg bodyweight
ATE CLP (dermal)	300,000 mg/kg bodyweight
2,2'-iminodiethanol, diethanolamine (111-42-2)	
ATE CLP (oral)	500,000 mg/kg bodyweight

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

Serious eye damage/irritation : Causes serious eye damage.
pH: > 11

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : May cause damage to organs (blood, liver, kidneys) through prolonged or repeated exposure (if swallowed).

Aspiration hazard : Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Ecology - water : Readily biodegradable in water

2,2'-iminodiethanol, diethanolamine (111-42-2)	
LC50 fish 1	1430 mg/l (96h)

12.2. PERSISTENCE AND DEGRADABILITY

No additional information available

Safety Data Sheet

AQUATREAT® 709

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

AQUATREAT® 709

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

12.6. OTHER ADVERSE EFFECTS

No additional information available

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) : 3267

14.2. UN PROPER SHIPPING NAME

Proper Shipping Name (ADR) : corrosive liquid, basic, organic, n.o.s., (mixture of cyclohexylamine and diethanolamine), 8, II, (E)

Transport document description (ADR) : UN 3267 corrosive liquid, basic, organic, n.o.s., (mixture of cyclohexylamine and diethanolamine), 8, II, (E)

14.3. TRANSPORT HAZARD CLASS(ES)

Danger labels (ADR) : 8



14.4. PACKING GROUP

Packing group (UN) : Not applicable

14.5. ENVIRONMENTAL HAZARDS

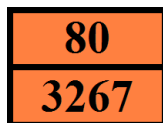
Other information : No supplementary information available.

14.6. SPECIAL PRECAUTIONS FOR USER

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Orange plates :



14.6.2. Transport by sea

No additional information available

Safety Data Sheet

AQUATREAT® 709

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

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. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H361f	Suspected of damaging fertility
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet

AQUATREAT® 709

H412	Harmful to aquatic life with long lasting effects
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