

IMPORTANT

AcquaSIL® 5/10 L:

- does not meet the criteria of classification as hazardous in accordance with Regulation (CE) 1272/2008 (CLP);
- does not contain substances PBT or vPvB in accordance with the criteria set out in Annex XIII of Regulation (CE) n. 1907/2006 (REACH);
- does not contain substances included in the list established in accordance with Article 59(1) for reasons other than those referred to in previous points;
- does not contain substances belonging to the hazard classes listed in article 31, paragraph 3 letters a, b and c of Regulation (CE) n. 1907/2006 (REACH).

Therefore, according to provisions of article 31 of Regulation (CE) n. 1907/2006 (REACH) for this product it is not required a material safety data sheet and this information data sheet is supplied.

This Information data sheet is supplied according to provisions of article 32 of Regulation (CE) n. 1907/2006 (REACH).

Information Data Sheet

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

1.1. Product identifier

Product name **ACQUASIL® 5/10 L**

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

Identified use(s) **anti-scaling and anti-corrosive product specific for solenoid dosing pumps**

1.3. Details of the supplier of the safety data sheet

Name **ACQUA BREVETTI S.R.L.**
Full address **VIA MOLVENO 8**
District and country **35030 MESTRINO (PD)**
ITALIA
tel.+39.(0)49.8974006
fax +39.(0)49.8978649

e-mail address of the competent person responsible for the information data sheet **tecnico@acquabrevetti.it**

1.4. Emergency telephone number

For urgent inquiries refer to **Anti-poison centre Tel. +44 870600 6266**

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

2.2. Label elements.

Hazard pictograms: --

Signal words: --

Hazard statements: --

Precautionary statements: --

This product is not subject to hazard labeling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

2.3. Other hazards.

The product does not contain substances PBT or vPvB according to Regulation (EC) N. 1907/2006, Annex XIII.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Identification.	Conc. %.	
SODIUM HEXAMETAPHOSPHATE		
CAS. 68915-31-1	5 - 15	Substance not classified as being hazardous.
CE. 272-808-3		
INDEX. -		
Nr. Reg. polymère		

SECTION 4. FIRST AID MEASURES.

If you feel unwell seek medical advice if possible show the container or label or MSDS for this product.

4.1. Description of first aid measures.

Although no episodes of damage to health ascribable to the product adopt the following general measures:

In case of CONTACT WITH EYES: flush with plenty of water for several minutes, holding the eyelids open.

In case of CONTACT WITH SKIN: wash with water and soap.

In case of INHALATION: not specifically required.

In case of INGESTION: rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person unless authorized by a doctor. Do not induce vomiting unless expressly authorized by a doctor.

PROTECTION OF RESCUERS: do not take any action that may involve any personal risk or without having received suitable training. Perform mouth-to-mouth can be dangerous to the rescuer. If there has been a substantial leakage the rescuer should wear protective gloves and prudently closed working clothes.

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

No episodes of damage to health ascribable to the product have been reported.

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

In case of health disorder seek medical advice and follow his directions. Do not give anything by mouth to an unconscious person. Always seek medical advice in case of doubt or when symptoms may arise even where not provided. Speaking with a doctor keep available the material safety data sheet or failing this, the label. In case of inhalation of decomposition products in a fire symptoms may be delayed. Keep the exposed person under medical surveillance for 48 hours.

SECTION 5. Firefighting measures.**5.1. Extinguishing media.**

SUITABLE EXTINGUISHING MEDIA

The extinguishing media should be of the conventional type: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxides, toxic pyrolytic products, etc.). In contact with incompatible metals causes the formation of hydrogen gas.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.**6.1. Personal precautions, protective equipment and emergency procedures.**

FOR THOSE WHO DO NOT DIRECTLY INTERVENE: leave the area surrounding the spill or release. Do not smoke. Remove all sources of ignition (cigarettes, flames, sparks, etc.). Provide adequate ventilation. If vapors, dusts, fumes and aerosols form use respiratory protection. Consult an expert.

FOR THOSE WHO DIRECTLY INTERVENE: eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the area where the loss occurred. In the case of solid product prevent the formation of dust spraying the product with water if there are no contraindications. In case of dust dispersed in air or fumes use respiratory protection. Stop leakages if it is not dangerous. Do not handle damaged containers or spilled material unless wearing gloves and protective clothing. Refer to protective equipment recommended in Section 8. Provide adequate ventilation. Do not smoke. Evacuate persons not adequately equipped. Consult an expert.

6.2. Environmental protections.

The product must not penetrate into the sewer system or come into contact with surface water or ground water. If the product has escaped into a water course, into a drainage system, or has contaminated the ground or vegetation, notify the competent authorities immediately.

6.3. Methods and material for containment and cleaning up.

If the spill occurred in a highway indicate the danger and notify the competent authorities (police, firefighters).

In case of:

SMALL SPILL

<i>Recovery</i>	Recover most of the material. Absorb with a rag or inert material (sand, vermiculite, diatomaceous earth, Kieselghur, etc.). Place contaminated material in an appropriate container labeled and separated from other waste. Do not dispose of into drains. Disposal of contaminated material must be made in accordance with the provisions of Section 13. The solutions with alkaline pH must be neutralized before being sent to disposal.
<i>Neutralization</i>	Not necessary.
<i>Cleaning/Decontamination</i>	Wash non-recoverable residues with plenty of water.

LARGE SPILL

Contain the spill. If possible, cover drains and prevent the product flow into drains.

<i>Recovery</i>	Draw product into a suitable container (made of material compatible with the product) and soak up any leaked product
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	with absorbent inert material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.). Collect as much of the remaining material with non-sparking tools and place into a suitable labeled container and separated from other waste. Do not dispose of into drains. Disposal of contaminated material must be made in accordance with the provisions of Section 13. The solutions with alkaline pH must be neutralized before being sent to disposal.
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<i>Neutralization</i>	Not necessary.
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<i>Cleaning/Decontamination</i>	Wash non-recoverable residues with plenty of water.
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6.4. Reference to other sections.

Any information on personal protection and disposal is given in Sections 8 and 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

The staff handling chemicals should be instructed about the specific risks and the preventive and protective measures, even to cope with any emergency, pursuant to local regulations and laws. Handle the product after having consulted all other sections of this MSDS.

Fire prevention measures

Perform manipulation in a place equipped with the fire-fighting measures described in section 5.

Measures to prevent formation of dust and aerosols

Avoid formation of aerosols.

Incompatible substances or mixtures

Do not handle with incompatible materials and do not manipulate with objects that come into contact or which may come into contact with incompatible materials (for a list of incompatible materials see sub-section 10.5).

Measures for environmental protection

Avoid spills. If you can handle the product away from drains or after taking appropriate measures (coverage). Any spills on the floor can make it slippery. Confining the washing water, avoiding contamination of drains, surface water, groundwater (risk of environmental contamination).

Advice on general occupational hygiene

Wear protective equipment specified in section 8. Avoid contact with skin, eyes and clothing. Do not breathe any vapors or mists. Avoid spills and improper handling that can cause leakage. Do not eat, drink or smoke while using the product. Wash hands, forearms and face after using the product. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage rooms and storage conditions

Store the product in a place equipped with the fire-fighting measures described in section 5. Keep away from food, drink and animal feed. Store the product in closed, labeled containers, away from heat and open flame in a well-ventilated area with temperatures between +5 °C and +40°C. Do not store with incompatible materials (for a list of incompatible materials see sub-section 10.5). For any other conditions to be avoided refer to sub-section 10.4. Protect against solar radiation and the action of heat. Keep away from flammable substances. Ensure adequate supply of water to extinguish. Make sure there is adequate ventilation is using mechanical ventilation. Transport must be guaranteed in a workmanlike manner according to the height of the stack, the insurance of the containers to prevent them from falling and to mark them according to rules. Tanks and containers shall be equipped with waterproof containment tank built with suitable materials. The containers with incompatible chemicals must be spaced and equipped with separate containment tanks.

Requirements for storage containers and materials in contact

Keep the product only in the original package. Close tight the container after use.

Materials compatible with the product as is:

Plastics: polyethylene, polypropylene, polyvinylchloride (PVC), teflon

Elastomers: viton, EPDM , silicone

Metals: stainless steel

Materials compatible with the product at the dilution of use:

Plastics: polyethylene, polypropylene, polyvinylchloride (PVC), teflon

Elastomers: viton, EPDM , silicone

Metals: stainless steel, carbon steel, galvanized steel, brass, copper

Given the wide variety of available material, the list of compatible materials is indicative. Always check the compatibility of materials of tanks, containers, piping, pumps, valves, measurements and control instruments, seals before using the product.

7.3. Specific end use(s).

No data available.

SECTION 8. Exposure controls/personal protection.**8.1. Control parameters.**

The product does not contain relevant quantities of substances with critical values that require monitoring at the workplace

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, ensure good ventilation at the workplace through effective local aspiration or air vent. If these steps do not keep the concentration of the product below the exposure limit values in the workplace, wear suitable protection for the respiratory tract. During the use of the product refer to the label for hazards and other details.

The personal protective equipment must comply with the regulations set forth below.

HAND PROTECTION

Not necessary for the identified use.

In case of prolonged manipulation or in case of spill (see Section 6) protect hands with gloves suitable for chemicals category III (ref. Directive 89/686/EEC and EN 374). Protect hands with the following gloves (protection factor 6, permeation time >480 min):

Material (thickness, mm): butyl rubber (.5 mm), nitrile (0,5 mm), polychloroprene (0,5 mm), fluorocarbon rubber (0,4 mm), PVC (0,5 mm)

EYES PROTECTION

Not necessary for the identified use.

If in an emergency wear airtight protective goggles (see standard EN 166). Install an emergency shower.

SKIN PROTECTION

Not necessary for the identified use.

If in an emergency wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344).

Wash body with soap and water after removing protective clothing.

RESPIRATORY PROTECTION

None required for the identified use.

In the presence of fumes, mists, aerosols or dust adopt a filtering facepiece conform to EN149 FFP2 S or a semi-mask conform to EN140 with a filter type P2 S conform to EN143.

In the case of gas or vapors of a different nature of vapors and / or gases or vapors with particles (aerosols, fumes, mists, etc.) Should be provided for combined type filters.

The use of means of protection of the respiratory tract, such as masks of the type described above, it is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

Environmental exposure controls.

The emission from ventilation or work process equipments should be checked to ensure they comply with local directives and legislation on environmental protection. In some cases fume scrubbers, filters or other engineering modifications to the process are required to reduce emissions to acceptable levels. Refer to local regulations for pollution of air, soil and water. For any further information please see also sections 6, 12 and 13.

SECTION 9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

Appearance	liquid
Colour	colorless
Odour	odorless
Odour threshold	N.A.
pH.	4,5 – 6,5
Melting or freezing point	N.A.
Initial boiling point	>100°C
Boiling range	N.A.(not available)
Flash point	N.A. (not applicable)

Evaporation rate	N.A. (not applicable)
Flammability of solids and gasses	N.A. (not applicable)
Lower flammability limit	N.A. (not applicable)
Upper flammability limit	N.A. (not applicable)
Lower explosive limit	N.A. (not applicable)
Upper explosivity limit	N.A. (not applicable)
Vapour pressure	N.A. (not applicable)
Vapours density	N.A. (not applicable)
Specific gravity	1,10 – 1,20 Kg/l
Solubility	Water soluble in any proportion
Partition coefficient: n-octanol/water	N.A.
Ignition temperature	N.A.
Decomposition temperature	N.A.
Viscosity	N.A.
Explosive properties	N.A.
Oxidizing properties	N.A.

9.2. Other information.

VOC (Directive 1999/13/CE) :	0,00%
VOC (volatile carbon) :	0,00%

SECTION 10. Stability and reactivity.**10.1. Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Oxidant and reducing agents, strong acids and strong alkali.

10.6. Hazardous decomposition products.

In case of thermal decomposition or in case of fire toxic decomposition products may be released (phosphorous oxides).

SECTION 11. Toxicological information.**11.1. Information on toxicological effects.**

No episodes of damage to health due to exposure to the product. In any case it is recommended to operate within the rules of good industrial hygiene. Here are provided toxicological data for the major component (sodium hexametaphosphate CAS 68915-31-1, Ec. N° 272-208-3).

SODIUM HEXAMETAPHOSPHATE; CAS 68915-31-1**Acute toxicity.**

LD50 (oral): 3053 mg/kg, rat
 LD50 (dermal): >7940 mg/kg, rabbit
 LC50 (inhalation): no data available

Skin corrosion / irritation.

Not irritant (OECD 404), rabbit
Serious eye damages / eye irritation.
Slightly irritant (OECD 405), rabbit.
Respiratory or dermal sensitization.
No sensitizing effect known.
Germ cell mutagenicity.
No mutagenic effect known.
Cancerogenicity.
No carcinogenic effect known.
Toxicity for reproduction.
No toxic effect for reproduction known.
Specific toxicity for target organs (STOT) – single exposure.
The substance is not classified as intoxicant for target organs for single exposure
Specific toxicity for target organs (STOT) – repeated exposure.
The substance is not classified as intoxicant for target organs for repeated exposure
Aspiration hazard.
Not applicable.

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

Aquatic toxicity

Although the product is not classified as dangerous for the environment it is necessary to avoid dispersion in the environment. Use it according to the legislation in force and the rules of good operational practice. The product may have significant adverse effects, related to an excessive concentration in waste water (eutrophication of water bodies).

12.2. Persistency and biodegradability.

Readily biodegradable. The product is removed from water by the biological mechanisms.

Comply with the limits set by current legislation.

Phosphorus content of the product :

2,5 % (as P)

Phosphorus content of the water treated with solnoid dosing pumps (70 g/l) :

< 5 mg/l (as P)

12.3. Bioaccumulative potential.

The ingredients in this product have a low bio-concentration factor (BFC).

12.4. Soil mobility

Given the complete solubility in water of the product the mobility in soil is very high.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse if possible. Must not be disposed of with household waste. Do not empty into drains. Any residual product should be disposed of according to applicable regulations turning to authorized companies. Operate in accordance with the provisions of Directive 2008/98/EC.

This product can not be established any number key for waste under the European Waste Catalogue (EWC) since the assignment is permitted only on the basis of the intended purpose and the use made by the consumer.

The waste key number must be arranged with an approved waste management which should be entrusted with the disposal, in compliance with national and local regulations.

13.2. Appropriate methods for packaging disposal.

The containers and packing materials contaminated with dangerous substances or preparations must be treated like the product and sent for recovery or disposal in compliance with local waste management regulations.

Dissolve any residual product in water and dispose of the contaminated liquid resulting in compliance with the regulations in force. After effective remediation packs may be disposed of as non-hazardous waste.

SECTION 14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for users

Not applicable.

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.**

Seveso Category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

None

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 689/2008:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

LEGEND

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 453/2010 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.