Material Safety data sheet (MSDS)
This data sheet is provided to help you work safely, please read before use of this material.

Date of issue: 7th February 2019

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY
Product name:
- 35ppt seawater standard solution. SC-35

Application:
- A high salinity standard for calibration of the electrical conductivity electrode on the AQUAPROBE.

Company identification: Aquaread Ltd
Bridge House
Northdown Industrial Park
Broadstairs
Kent
CT10 3JP
England

Tel: +44 (0) 1843 600030

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS
Clear colorless aqueous solution.

Sodium chloride (in deionised water)
CAS-no; 7647-14-5
EC no; 231-598-3
Content; <1M

SECTION 3 - HAZARD IDENTIFICATION
Not classified as dangerous according to Directive 67/548/EEC, however good laboratory practices should always be used.

SECTION 4 - FIRST AID MEASURES
- **After inhalation**   : if inhaled remove to fresh air. If not breathing give artificial respiration.
- **After skin contact**   : wash exposed area with water and soap.
- **After eye contact**   : as a precaution rinse out with plenty of water for at least 15 minutes, lifting lids occasionally.
- **After swallowing**   : wash out mouth with plenty of water, provided person is conscious. Not necessary to induce vomiting, drink plenty of water.

SECTION 5 – FIRE-FIGHTING MEASURES
- **Suitable extinguishing media**
  - Water spray, foam, dry powder or carbon dioxide (as appropriate to local environment and surroundings).
- **Fire/Explosion Hazards:**
  - None known
- **Additional information:**
  - Only fight fire if you are trained and confident to do so, wear suitable fire protection equipment.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
- **Personal precautions:**
  - Avoid dust formation
- **Environmental precautions:**
  - Dilute with excess water as a precaution. If small spill occurs absorb with sand or another inert absorbent. If large spill occurs dam with absorbent material, collect

in containers and dispose of according to local regulations. Wash exposed area thoroughly.

SECTION 7 - HANDLING AND STORAGE

- **Handling:**
  - Use good laboratory practice, abide with local health and safety procedures.

- **Storage:**
  - Store in a well ventilated, cool dry place away from direct sunlight. Keep container tightly closed when not in use.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

- **Personal protective equipment:**
  - Change contaminated clothing as required.

- **Respiratory protection:**
  - Not required. If excess dust is formed wear N95 (US) or type P1 (EN 143) dust masks. Respirators and components should be tested and approved under appropriate government standards.

- **Protective gloves:**
  - For prolonged/repeated exposure wear appropriate gloves (plastic, nylon, latex). Wash hands after working with substance.

- **Eye protection:**
  - Safety glasses with side shields, goggles or face mask.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

- **Appearance**   : Colourless liquid
- **Odour**   : Odourless
- **Solubility**   : Soluble
- **Melting point**   : No data available
- **Boiling point**   : lowest known 100°C (water)
- **pH value at 20ºC**   : ~7
- **Flash point**   : Not applicable
- **Explosive properties** : No data available
- **Explosion limits**   : No data available
- **Ignition temperature** : No data available

SECTION 10 - STABILITY AND REACTIVITY

- **Conditions to be avoided:**
  - Strong heating (above boiling point).
  - Stable in the recommended storage conditions.
- **Hazardous decomposition products:**
  - See section 5 in the event of fire.
- **Substances to be avoided:**
  - Strong oxidising agents.
- **Hazardous decomposition products (formed under fire condition)**
  - Sodium/Sodium oxides, Hydrogen chloride gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity (NaCl)
LD50 Oral-rat; 3000mg/kg
LD50 Dermal-rabbit; >10000mg/kg
LC50 Inhalation-rat; >42000mg/m^3

Irritation and corrosion
Eyes-Rabbit; mild eye irritation
Skin-Rabbit; mild skin irritation

Signs and symptoms of exposure
Vomiting, diarrhoea, dehydration. Congestion may occur in internal organs. May cause inflammatory reactions in the gastrointestinal tract.

Further data
The product should be handled with the care usual when dealing with chemicals. May be harmful if swallowed, inhaled, absorbed through the skin or may cause eye irritation.

SECTION 12 - ECOLOGICAL INFORMATION
Ecotoxic effects:
Elimination data not available.
Toxicity to fish (NaCl); -Lepomis macrochirus (Bluegill) LC50; >1200mg/l (96h)
                              - Pimephales promelas (fathead minnow) NOEC; 4000mg/l (7 days)
Toxicity to daphnia and other aquatic invertebrates (NaCl); -Daphnia NOEC; 1500mg/l (7 days)
                                                      -Daphnia magna (Water flea) LC50; >1600mg/l (48h)
Further ecological data:
No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS
- **Waste disposal:**
   - Observe all federal, state and local environmental regulations.

SECTION 14 - TRANSPORT INFORMATION
14.1 UN-Number ADR, IMDG, IATA: Void
14.2 UN proper shipping name ADR, IMDG, IATA: Not dangerous goods
14.3 Transport hazard class(es) ADR, IMDG, IATA: Void
14.4 Packing group ADR, IMDG, IATA: Void
14.5 Environmental hazards: No
      Marine pollutant: No
14.6 Special precautions for user: No data available

SECTION 15 - REGULATORY INFORMATION
Labelling according to EC Directives:

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Further information:
This substance is not classified as dangerous according to Directive 67/548/EEC.

Follow Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health (CoSHH).

SECTION 16 - OTHER INFORMATION
- **Supersedes edition of**   : none
- **Reason for revision**   : n/a

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT AT THE DATE OF ISSUE. IT CHARACTERISES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT. AQUAREAD LTD SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING IN HANDLING OR EXPOSURE TO THE ABOVE PRODUCT. AQUAREAD LTD DOES NOT CARRY OUT ANY ANIMAL TESTING.