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

1.1 Product identifier: NaCl solution
   Substance name: Sodium Chloride
   CAS No.: 7647-14-5
   EC No.: 231-598-3

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Used for calibration of conductivity sensor

1.3 Details of the supplier of the safety data sheet:
   Manufacture:
   Name: Yokogawa Electric Corporation
   Address: 2-9-32 Nakacho, Musashino-shi, Tokyo, 180-8750 Japan
   Phone: 81-422-52-5845 (IA-PS PBC Analytical Products Dept.)
   Website: http://www.yokogawa.com

   Importer (only in Europe):
   Name: Yokogawa Europe B.V. (Regional Headquarters in EU)
   Address: Euroweg 2, 3825 HD Amersfoort, The Netherlands
   Postal Address: P.O. Box 163, 3800 AD Amersfoort, The Netherlands
   Phone: +31-(0)88-4641000
   Website: www.yokogawa.com/eu
   E-Mail: info@nl.yokogawa.com

1.4 Emergency telephone number (only in Europe):
   +31-88-4641000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:
   Not classified according to Regulation (EC) No 1272/2008 [CLP]

2.2 Label elements
   Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]
   Product identifier: NaCl solution
   Substance name: Sodium Chloride
   CAS No.: 7647-14-5
   EC No.: 231-598-3
   Hazard pictograms: Not classified
   Signal word: Not classified
   Hazard statements: Not classified
   Precautionary statements: Not classified
Supplemental Hazard information (EU) : Not applicable.

2.3 Other hazards
Not applicable

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Description of the mixture:
The concentrations of substances including non-hazardous components are listed below.

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Concentration</th>
<th>Classification according Regulation (EC) No. 1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>231-598-3</td>
<td>Approx. 0.6% (0.1mol/L)</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Balance</td>
<td>Not Classified</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

<table>
<thead>
<tr>
<th>General information</th>
<th>: No information available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Following inhalation</td>
<td>: Move into fresh air and rinse nose and mouth with water.</td>
</tr>
<tr>
<td>Following skin contact</td>
<td>: Wash with water.</td>
</tr>
<tr>
<td>Following eye contact</td>
<td>: Rinse opened eye for several minutes under running water.</td>
</tr>
<tr>
<td>Following ingestion</td>
<td>: Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.</td>
</tr>
</tbody>
</table>

4.2 Most important symptoms and effects, both acute and delayed

No special information available

4.3 Indication of any immediate medical attention and special treatment needed

No special information available

SECTION 5: Firefighting measures

5.1 Extinguishing media:

| Suitable extinguishing media | : Water, CO₂, foam, extinguishing powder. |
| Unsuitable extinguishing media | : No information available |
5.2 Special hazards arising from the substance or mixture
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3 Advice for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes. Special protective equipment is not required.

6.2 Environmental precautions:
Be careful not discharged to surface or ground water.

6.3 Methods and material for containment and cleaning up

- For containment: Put in suitable, closed containers or plastic bags for disposal.
- For cleaning up: Wipe with waste clothes or papers, and wash the spill site with water.

6.4 Reference to other sections
For disposal refer to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Protective measures: No special measures required.
Advice on general occupational hygiene: Not to eat, drink and smoke in work areas.

7.2 Conditions for safe storage, including any incompatibilities
Further information on storage conditions:
Keep in cool and dried place, away from direct sunlight.

7.3 Specific end uses
Refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Not applicable.

8.2 Exposure controls
No special measures required.

**Personal protective equipment:**
- **Eye / Face protection**: Safety glasses recommended.
- **Skin protection**: Protective gloves impervious to water recommended.
- **Respiratory protection**: Not required.

**SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

- **Appearance**
  - **Physical state**: Liquid
  - **Colour**: Colourless and clear
  - **Odour**: Odourless
  - **pH**: 4.0 ~ 8.0 (25 degree)
  - **Melting point / freezing point**: No data available
  - **Initial boiling point / boiling range**: No data available
  - **Flash point**: No data available
  - **Evaporation rate**: No data available
  - **Flammability (solid, gas)**: No data available
  - **Upper/lower flammability or explosive limits**
    - **Upper**: No data available
    - **Lower**: No data available
  - **Vapour pressure**: No data available
  - **Vapour density**: No data available
  - **Relative density**: No data available (Approx. 1.15~1.17)
  - **Solubilities**: Water freely miscible.
  - **Partition coefficient (n-octanol/water)**: No data available
  - **Auto-ignition temperature**: No data available
  - **Decomposition temperature**: No data available
  - **Viscosity**: No data available
  - **Explosive properties**: No data available
  - **Oxidising properties**: No data available

### 9.2 Other information:

- **Physical hazards**: No data available

**SECTION 10: Stability and reactivity**

### 10.1 Reactivity
- No data available

### 10.2 Chemical stability
- Stable under recommended storage conditions. Refer to section 7.

### 10.3 Possibility of hazardous reactions
- No data available

### 10.4 Conditions to avoid
- Extremes of temperature and direct sunlight.
It's not hazardous but may reduce the quality.

10.5 Incompatible materials : No data available.

10.6 Hazardous decomposition products : No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

(a) acute toxicity ; ATEmix(oral) = no data available
ATEmix (dermal) = no data available
ATEmix (Inhalation) = no data available

(Information of single component)
Sodium Chloride Oral LD50>3000 mg/kg(RAT)
Inhalation LC50>53mg/m³ 1h(RAT)

(b) skin corrosion/irritation ; No data available
(c) serious eye damage/irritation ; No data available
(d) respiratory or skin sensitization ; No data available
(e) germ cell mutagenicity ; No data available
(f) carcinogenicity ; No data available
(g) reproductive toxicity ; No data available
(h) STOT-single exposure ; No data available
(i) STOT-repeated exposure ; No data available
(j) aspiration hazard ; No data available

11.2 Other information
When used and handled according to specifications, the product does not have any harmful effects.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity ; No data available

(Information of single component)
Sodium Chloride
Algae/aquatic plants : No data available
Fish: LC50 ; Oncorhynchus mykiss 4747 - 7824 mg/L 96 h
EC50 ; Daphnia magna 1000 mg/L 48 h

12.2 Persistence and degradability ; No information available

12.3 Bioaccumulative potential ; No information available

12.4 Mobility in soil ; No information available
12.5 Results of PBT and vPvB assessment: Not applicable.

12.6 Other adverse effects:
No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal:
Disposal should be in accordance with applicable regional, national and local laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

Empty ampoules can be treated like household refuse.

Waste codes / waste designations according to EWC:
16 03 04 / inorganic wastes other than those mentioned in 16 03 03 (cf.16 03 03; inorganic wastes containing dangerous substances)

SECTION 14: Transport information

Non-hazardous material. Not subject to transport regulations

<table>
<thead>
<tr>
<th>14.1 UN No.</th>
<th>14.2 UN Proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>Non-hazardous material</td>
<td>-</td>
<td>-</td>
<td>Not applicable</td>
</tr>
<tr>
<td>-</td>
<td>Non-hazardous material</td>
<td>-</td>
<td>-</td>
<td>Not applicable</td>
</tr>
<tr>
<td>-</td>
<td>Non-hazardous material</td>
<td>-</td>
<td>-</td>
<td>Not applicable</td>
</tr>
<tr>
<td>-</td>
<td>Non-hazardous material</td>
<td>-</td>
<td>-</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
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

Not applicable. The material is not subject to classification according to regulation EC 1272/2008 [CLP]. Observe the normal safety regulations when handling chemicals.

15.2 Chemical Safety Assessment:

For this product a chemical safety assessment is not required.

SECTION 16: Other information

16.1 Indication of changes

Revised on 16th May 2017 (Rev.1.01):
- Correction of the error in section 1.2
- Change of manufacture's phone number in section 1.3
- Correction of unit of temperature in section 9.1

Issued on 31st March 2016 (Rev.1.00)

16.2 Key literature references and sources for data

SDS provided by Wako Pure Chemical Industries, Ltd
- W01W0119-0168 JGHEEN 0.1mol/l Sodium Chloride Solution (Version 1)
- W01W0119-0166 JGHEEN Sodium Chloride (Version 8)

16.3 Further information:

The information provided in this Safety Data Sheet is based on the present state of knowledge and is believed to be correct. Its purpose is to characterize the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.