



# SAFETY DATA SHEET

Issue Date 24-Oct-2019

Revision Date 24-Oct-2019

Version 1.1

Page 1 / 11

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Safety data sheet number** M02117

### Other means of identification

**Product Code(s)** 25M3A2000-500

### Manufacturer Address

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

### Emergency Telephone

+1(303) 623-5716 - 24 Hour Service

## 2. HAZARDS IDENTIFICATION

### **GHS Classification**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### **Label elements**

### Hazard statements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

### Mixture

| Chemical name   | Formula | CAS No.   | EC No.    | Percent Range |
|-----------------|---------|-----------|-----------|---------------|
| Sodium chloride | NaCl    | 7647-14-5 | 231-598-3 | 1 - 5%        |

## 4. FIRST AID MEASURES

### Description of necessary first aid measures

**General advice** No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.

**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 2 / 11

**Inhalation** Remove to fresh air.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**For emergency responders**  
**Self-protection of the first aider** No information available.

**Most important symptoms/effects, acute and delayed**  
**Symptoms** No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**  
**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**  
**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available

**Specific hazards arising from the chemical**  
**Specific hazards arising from the chemical** No information available.

**Explosive properties**  
Not classified according to GHS criteria.

**Hazardous combustion products** This material will not burn.

**Specific/special fire-fighting measures**  
**Specific/special fire-fighting measures** No information available.

**Special protective equipment and precautions for fire-fighters**  
**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**  
**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protective equipment as required.  
**Environmental precautions**  
**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**  
**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information.  
See section 13 for more information.

## 7. HANDLING AND STORAGE

### Preventive measures for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Precautions for safe handling

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Strong oxidizing agents, strong acids, and strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical name                                  | India | Russia                   | Israel | South Africa |
|--|-------|--------------------------|--------|--------------|
| Sodium chloride<br>(1 - 5%)<br>CAS#: 7647-14-5 | NDF   | MAC: 5 mg/m <sup>3</sup> | NDF    | NDF          |

**Legend** See section 16 for terms and abbreviations

### Appropriate engineering controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hand protection** Wear suitable gloves.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** No special protective equipment required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

**Thermal hazards** None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 4 / 11

**Information on basic physical and chemical properties**

**Physical state** Liquid  
**Appearance** aqueous solution  
clear  
**Color** colorless  
**Odor** None  
**Odor threshold** No data available

| <u>Property</u>  | <u>Values</u>                            | <u>Remarks • Method</u> |
|--|--|-------------------------|
| <b>Molecular weight</b>                                | No data available                        |                         |
| <b>pH</b>  | 7  |                         |
| <b>Melting point/freezing point</b>                    | ~ -1 °C / 30 °F                          |                         |
| <b>Boiling point / boiling range</b>                   | ~ 100 °C / 212 °F                        |                         |
| <b>Evaporation rate</b>                                | 1 (water = 1)                            |                         |
| <b>Vapor pressure</b>                                  | 23.702 mm Hg / 3.16 kPa at 25 °C / 77 °F |                         |
| <b>Vapor density (air = 1)</b>                         | 0.62 (Air = 1)                           |                         |
| <b>Specific gravity (water = 1 / air = 1)</b>          | 1.0100                                   |                         |
| <b>Partition Coefficient (n-octanol/water)</b>         | Not applicable                           |                         |
| <b>Soil Organic Carbon-Water Partition Coefficient</b> | Not applicable                           |                         |
| <b>Autoignition temperature</b>                        | No data available                        |                         |
| <b>Decomposition temperature</b>                       | No data available                        |                         |
| <b>Dynamic viscosity</b>                               | No data available                        |                         |
| <b>Kinematic viscosity</b>                             | No data available                        |                         |

**Solubility(ies)**

**Water solubility**

| <u>Water solubility classification</u> | <u>Water solubility</u> | <u>Water Solubility Temperature</u> |
|--|-------------------------|-------------------------------------|
| Soluble                                | > 1000 mg/L             | 25 °C / 77 °F                       |

**Solubility in other solvents**

| <u>Chemical Name</u> | <u>Solubility classification</u> | <u>Solubility</u> | <u>Solubility Temperature</u> |
|----------------------|----------------------------------|-------------------|-------------------------------|
| Acid                 | Soluble                          | > 1000 mg/L       | 25 °C / 77 °F                 |

**Other Information**

**Metal Corrosivity**

**Steel Corrosion Rate** No data available  
**Aluminum Corrosion Rate** No data available

**Volatile Organic Compounds (VOC) Content**

**Explosive properties**

**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 5 / 11

**Upper explosion limit** No data available  
**Lower explosion limit** No data available

**Flammable properties**

**Flash point** No data available

**Flammability Limit in Air**

**Upper flammability limit** No data available  
**Lower flammability limit** No data available

**Oxidizing properties** No data available.

**Bulk density** No data available

**10. STABILITY AND REACTIVITY**

**Reactivity**  
Not applicable.

**Chemical stability**  
**Stability** Stable under normal conditions.

**Explosion data**  
**Sensitivity to mechanical impact** None  
**Sensitivity to static discharge** None.

**Possibility of Hazardous Reactions**  
**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerization**  
None under normal processing.

**Conditions to avoid**  
**Conditions to avoid** None known based on information supplied.

**Incompatible materials**  
**Incompatible materials** Strong oxidizing agents, strong acids, and strong bases.

**Hazardous Decomposition Products**  
None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

**Product Information**

**Inhalation** No known effect based on information supplied.  
**Eye contact** No known effect based on information supplied.  
**Skin contact** No known effect based on information supplied.  
**Ingestion** No known effect based on information supplied.

**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 6 / 11

**Symptoms** No information available.

**Acute toxicity**

Based on available data, the classification criteria are not met

**Product Acute Toxicity Data**

No data available.

**Ingredient Acute Toxicity Data**

Test data reported below.

**Oral Exposure Route**

| Chemical name                                  | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data                   |
|--|-------------------------|---------------|---------------|-----------------------|--|
| Sodium chloride<br>(1 - 5%)<br>CAS#: 7647-14-5 | Rat<br>LD <sub>50</sub> | 3000 mg/kg    | None reported | None reported         | IUCLID (The International Uniform Chemical Information Database) |

**Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

**Acute Toxicity Estimations (ATE)**

|             |                          |
|-------------|--------------------------|
| LD50/Oral   | No information available |
| LD50/Dermal | No information available |
| Dust/Mist   | No information available |
| Vapor       | No information available |
| Gas         | No information available |

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Product Skin Corrosion/Irritation Data**

No data available.

**Ingredient Skin Corrosion/Irritation Data**

Test data reported below.

| Chemical name                                  | Test method          | Species | Reported dose | Exposure time | Results            | Key literature references and sources for data           |
|--|----------------------|---------|---------------|---------------|--------------------|--|
| Sodium chloride<br>(1 - 5%)<br>CAS#: 7647-14-5 | Standard Draize Test | Rabbit  | 500 mg        | 24 hours      | Mild skin irritant | RTECS (Registry of Toxic Effects of Chemical Substances) |

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Product Serious Eye Damage/Eye Irritation Data**

No data available.

**Ingredient Eye Damage/Eye Irritation Data**

**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 7 / 11

Test data reported below.

| Chemical name                                  | Test method             | Species | Reported dose | Exposure time | Results           | Key literature references and sources for data           |
|--|-------------------------|---------|---------------|---------------|-------------------|--|
| Sodium chloride<br>(1 - 5%)<br>CAS#: 7647-14-5 | Standard Draize<br>Test | Rabbit  | 100 mg        | None reported | Mild eye irritant | RTECS (Registry of Toxic Effects of Chemical Substances) |

**Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

**Product Sensitization Data**

No data available.

**Ingredient Sensitization Data**

No data available.

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**Product Specific Target Organ Toxicity Single Exposure Data**

No data available.

**Ingredient Specific Target Organ Toxicity Single Exposure Data**

No data available.

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Product Specific Target Organ Toxicity Repeat Dose Data**

No data available.

**Ingredient Specific Target Organ Toxicity Repeat Exposure Data**

No data available.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Product Carcinogenicity Data**

No data available.

**Ingredient Carcinogenicity Data**

No data available.

| Chemical name   | CAS No.   | ACGIH | IARC | NTP | OSHA |
|-----------------|-----------|-------|------|-----|------|
| Sodium chloride | 7647-14-5 | -     | -    | -   | -    |

**Legend**

|   |                |
|---|----------------|
| <b>ACGIH (American Conference of Governmental Industrial Hygienists)</b>                  | Does not apply |
| <b>IARC (International Agency for Research on Cancer)</b>                                 | Does not apply |
| <b>NTP (National Toxicology Program)</b>  | Does not apply |
| <b>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</b> | Does not apply |

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 8 / 11

**Product Germ Cell Mutagenicity invitro Data**  
No data available.

**Ingredient Germ Cell Mutagenicity invitro Data**  
No data available.

**Product Germ Cell Mutagenicity invivo Data**  
No data available.

**Ingredient Germ Cell Mutagenicity invivo Data**  
No data available.

**Reproductive toxicity**  
Based on available data, the classification criteria are not met.

**Product Reproductive Toxicity Data**  
No data available.

**Ingredient Reproductive Toxicity Data**  
No data available.

**Aspiration hazard**  
Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Unknown aquatic toxicity** 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

### Product Ecological Data

**Aquatic Acute Toxicity**  
No data available.

**Aquatic Chronic Toxicity**  
No data available.

### Ingredient Ecological Data

**Aquatic Acute Toxicity**  
Test data reported below.

#### Fish

#### Crustacea

**Aquatic Chronic Toxicity**  
No data available.

### Persistence and degradability

**Product Biodegradability Data**  
No data available.

### Bioaccumulation



**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 9 / 11

**Product Bioaccumulation Data**

No data available.

**Partition Coefficient (n-octanol/water)**

Not applicable

**Mobility**

**Soil Organic Carbon-Water Partition Coefficient**

Not applicable

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

**Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Do not reuse empty containers.

**14. TRANSPORT INFORMATION**

**IMDG**

Not regulated

**IATA**

Not regulated

**DOT**

Not regulated

**TDG**

Not regulated

**ADR**

Not regulated

**ADN**

Not regulated

**ICAO (air)**

Not regulated

**Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods.

If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

**15. REGULATORY INFORMATION**

**International Inventories**

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | Complies |
| <b>PICCS</b>         | Complies |
| <b>TCSI</b>          | Complies |
| <b>AICS</b>          | Complies |
| <b>NZIoC</b>         | Complies |

**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 10 / 11

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**TCSI** - Taiwan Chemical Substances Inventory  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals

**Regulation under the Waste Management Act** Dispose of in accordance with federal, state and local regulations

**Basel Convention Codes**

| Chemical name   | CAS No.   | ANNEX I | ANNEX III |
|-----------------|-----------|---------|-----------|
| Sodium chloride | 7647-14-5 | -       | -         |

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**16. OTHER INFORMATION**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

*NIOSH IDLH* Immediately Dangerous to Life or Health  
*ACGIH* ACGIH (American Conference of Governmental Industrial Hygienists)  
*NDF* no data

**Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|      |                                 |         |   |
|------|---------------------------------|---------|---|
| TWA  | TWA (time-weighted average)     | STEL    | STEL (Short Term Exposure Limit)  |
| MAC  | Maximum Allowable Concentration | Ceiling | Ceiling Limit Value   |
| X    | Listed                          | Vacated | These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations. |
| SKN* | Skin designation                | SKN+    | Skin sensitization  |
| RSP+ | Respiratory sensitization       | **      | Hazard Designation  |
| C    | Carcinogen                      | R       | Reproductive toxicant   |
| M    | mutagen                         |         |   |

**Prepared By** Hach Product Compliance Department

**Issue Date** 24-Oct-2019

**Product Code(s)** 25M3A2000-500  
**Issue Date** 24-Oct-2019  
**Version** 1.1

**Product Name** Conductivity Solution, 500 µS/cm 1L  
**Revision Date** 24-Oct-2019  
**Page** 11 / 11

**Revision Date** 24-Oct-2019

**Revision Note** None

**Disclaimer**

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.**

**End of Safety Data Sheet**