



**Water-i.d. GmbH**

According to (EC) No. 1272/2008[EU-GHS/CLP]

# Safety Data Sheet (SDS)

|                      |                   |
|----------------------|-------------------|
| <b>Product Name:</b> | water test strips |
| <b>Model No.:</b>    | TSL 600           |

Written by: Linda

(Linda)

Inspected by: Jose

(Jose)

Approved by: Grealy

(Grealy)



**ISSUED BY: TUV-Laboratory (China) Service of Testing Co., Ltd.**

**Oct. 2021 PRINT**

|                       |                     |
|-----------------------|---------------------|
| <b>Item No.:</b>      | 21A431A236          |
| <b>SDS No.:</b>       | EMS.211.020.003.WID |
| <b>Initial Date:</b>  | Oct. 20, 2021       |
| <b>Revision Date:</b> | Oct. 20, 2021       |





# Safety Data Sheet

|                                 |                              |                      |
|---------------------------------|------------------------------|----------------------|
| Product Name: water test strips | Initial Date: Oct. 20, 2021  | Version: 1.0         |
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## Section 1

### Product and Company Identification

#### Product identification

|                    |                   |
|--------------------|-------------------|
| Product Name:      | water test strips |
| Model No.:         | TSL 600           |
| HS code:           | 3822001090        |
| CAS No.:           | Not applicable    |
| EC No.:            | Not applicable    |
| Molecular formula: | Not applicable    |

#### Relevant identified uses of the substance or mixture and uses advised against

|                       |                       |
|-----------------------|-----------------------|
| Identified uses:      | Testing water quality |
| Uses advised against: | No special note       |

#### Details of the applicant, supplier

|               |  |
|---------------|--|
| Company name: | Water-i.d. GmbH                                  |
| Address:      | Daimlerstr. 20, Eggenstein-Leopoldshafen Germany |
| Post code:    | 76344  |
| Telephone:    | 49 (0) 721 - 78 20 29 - 0                        |
| Fax:          | /  |
| E-mail:       | lab@water-id.com                                 |

#### Emergency telephone number

|                      |   |
|----------------------|---|
| Emergency telephone: | Poison Control Centre Munich, +49 (0) 89 19 24 0. |
|----------------------|---|

## Section 2

### Hazard Description

Hazard class and label elements of the product according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]:

#### GHS Hazard class

|  |                                     |
|--|-------------------------------------|
|  | Non-hazardous substance or mixture. |
|--|-------------------------------------|

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## GHS label elements

|               |      |
|---------------|------|
| Pictogram(s): | None |
| Signal word:  | None |

## Hazard statements

|  |                 |
|--|-----------------|
|  | Not applicable. |
|--|-----------------|

## Other Hazards

|  |       |
|--|-------|
|  | None. |
|--|-------|

## Hazard description

### Physical and chemical hazards

|  |   |
|--|---|
|  | Non-flammable, no special combustion and explosion characteristics. |
|--|---|

### Health hazards

|  |       |
|--|-------|
|  | None. |
|--|-------|

### Environmental hazards

|  |                                    |
|--|------------------------------------|
|  | Please refer to Section 12 of SDS. |
|--|------------------------------------|

## Section 3 Composition/Ingredient Data

☐ Material

☒ Mixture

| No. | Component(s)      | Content, % | CAS No.    |
|-----|-------------------|------------|------------|
| 1   | Filter paper      | 98.00      | 11132-73-3 |
|     | EDTA Disodium     | 1.20       | 139-33-3   |
|     | Glycine           | 0.90       | 56-40-6    |
|     | Sodium hydroxide  | 0.80       | 1310-73-2  |
|     | Potassium sulfate | 0.10       | 7778-80-5  |

## Section 4 First Aid Measures

### Description of first aid measures





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|                 |   |
|-----------------|---|
| General advice: | Show this safety data sheet to the doctor in attendance.<br>After receiving the first-aid measure required, consult a physician if necessary.   |
| Skin contact:   | It is harmless if used as intended.<br>If worry, wash off with soap and plenty of water as a precaution.  |
| Eyes contact:   | If the mucous membrane of the eye or the like is irritated by fumes, steam, fine particles, etc., check for and remove any contact lenses, occasionally lifting the upper and lower eyelids. Immediately flush eyes with running water, disappear until the chemical residues so far.<br>Provide a readily-accessible eyewash facility and quick-drench safety shower.<br>Do not rubbing eyes with hand.  |
| Inhalation:     | If worker inhales plenty of steam, power or dust, move exposed person to fresh air. Maintain an open airway. Keep person warm and at rest.<br>If breathing is irregular, provide artificial respiration or oxygen by trained personnel.<br>Get medical attention if adverse health effects persist or are severe.   |
| Ingestion:      | Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest.<br>If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.<br>Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel.<br>If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.<br>Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. |

## Most important acute and delayed symptoms/effects

|   |  |
|---|--|
| 1 | The most important known symptoms and effects are described in section 2 and/or in section 11. |
|---|--|

## Immediate/special treatment

|   |   |
|---|---|
| 1 | Continue with first aid measures. Treat symptomatically and supportively. |
| 2 | Symptoms may be delayed.  |

## Section 5 Firefighting Measures

### Extinguishing agent

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|                                  |   |
|----------------------------------|---|
| Suitable extinguishing agents:   | Use dry sand, dry chemical or CO <sub>2</sub> foam extinguishing.<br>Water spray can be used to cool fire exposed containers/materials.<br>Use extinguishing media most appropriate for the surrounding fire. |
| Unsuitable extinguishing agents: | Do not use a solid water stream as it may scatter or spread fire.   |

## Special hazards arising from the substance or mixture

|   |  |
|---|--|
| 1 | If this product is involved in a fire, the following can be released: Carbon oxides and other toxic fumes. |
|---|--|

## Fire precautions and measures

|   |  |
|---|--|
| 1 | Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind. |
| 2 | As far as possible will be transferred to empty containers from the scene.   |
| 3 | Keep the fire water spray containers cooling, until the end of fire.   |
| 4 | If the containers in the fire ground have been color, must be evacuated immediately.                                   |
| 5 | Isolated accident scene, prohibit access.  |
| 6 | Receiving and processing of fire, to prevent environmental pollution.  |

## Section 6

## Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

|   |   |
|---|---|
| 1 | No action shall be taken involving any personal risk or without suitable training.        |
| 2 | Keep unnecessary and unprotected personnel from entering.                                 |
| 3 | Do not touch or walk through spilt material, avoid slipping.                              |
| 4 | Avoid breathing dusts/steam.  |
| 5 | Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. |
| 6 | Put on appropriate personal protective equipment (see section 8).                         |

## Environmental precautions

|   |   |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided.       |

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## Methods and materials for containment and cleaning up

|   |   |
|---|---|
| 1 | Pick up and arrange disposal without creating dust. Collect mechanically. Keep in suitable, closed containers for disposal. |
| 2 | Disposal: Contaminated material must be disposed of in accordance with all State and/or Local regulations.                  |

## Section 7 Handling and Storage

### Precautions for safe handling

|    |  |
|----|--|
| 1  | Avoid formation of dust and aerosols.  |
| 2  | Put on appropriate personal protective equipment (see section 8).  |
| 3  | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.           |
| 4  | Workers should wash hands and face before eating, drinking and smoking. Avoid contact eyes. Avoid breathing dust.          |
| 5  | Provide suitable exhaust equipment. Operate in a well-ventilated place.  |
| 6  | Normal measures for preventive fire protection. Keep away from heat/open flames/hot surfaces.                              |
| 7  | Observe good housekeeping procedures and hygiene practices.  |
| 8  | Provide for appropriate exhaust ventilation and dust collection at machinery.  |
| 9  | Wash thoroughly after handling.  |
| 10 | Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. |
| 11 | Handling of light when light disposal to prevent packaging and container is damaged.                                       |
| 12 | Fire prevention and moisture-proof. Do not touch test panel on strip.  |

### Precautions for storage

|   |   |
|---|---|
| 1 | Store in accordance with local regulations. Stored in a dry, cool and well-ventilated area. Keep container tightly closed.  |
| 2 | Avoid direct sunlight. Keep away from open flames and high temperatures, away from incompatible materials (see section 10). |
| 3 | Moisture-proof and water-proof.   |
| 4 | Keep out of reach of children and pets.   |
| 5 | Recommended storage temperature: <50°C. Relative humidity: <80%.  |

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Section 8

Exposure Controls/Personal Protection

Control parameters

Occupational Exposure limit values

| Components<br>CAS No.            | Country/region | Occupational exposure limits<br>(8h) |                   | Occupational exposure limits<br>(Short time) |                   |
|----------------------------------|----------------|--------------------------------------|-------------------|--|-------------------|
|                                  |                | ppm                                  | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Sodium<br>hydroxide<br>1310-73-2 | USA-OSHA       | -                                    | 2                 | -  | -                 |
|                                  | Sweden         | -                                    | 1                 | -  | 2                 |
|                                  | Korea          | -                                    | -                 | -  | 2                 |
|                                  | Ireland        | -                                    | -                 | -  | 2                 |
|                                  | Denmark        | -                                    | 2                 | -  | 2                 |
|                                  | Australia      | -                                    | -                 | -  | 2                 |

Engineering controls

|   |  |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas.                             |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |

Personal protection

|                           |   |
|---------------------------|---|
| General requirements:     |   |
| Respiratory protection:   | Normally not required if used as intended.<br>Recommended to wear masks during production.  |
| Eye protection:           | Normally not required if used as intended.<br>Wear safety glasses when there is a potential for eye contact during production.  |
| Skin and body protection: | Normally not required if used as intended.<br>Wear suitable protective clothing and boots during production.  |
| Hands protection:         | Normally not required if used as intended.<br>Wear protective gloves during production.<br>Check protective gloves prior to each use for their proper condition.<br>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. |



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Section 9

Physical and Chemical Properties

Information on basic physical and chemical properties

|   |   |
|---|---|
| Appearance and character:                     | Reddish brown; Strip test paper, solid                |
| Odor:   | Odorless  |
| Melting point/freezing point (°C):            | No data/Not applicable                                |
| Initial boiling point and boiling range (°C): | No data/Not applicable                                |
| Flash point (°C):                             | No data/Not applicable                                |
| Evaporation rate:                             | No data/Not applicable                                |
| Steam pressure (20°C):                        | No data/Not applicable                                |
| Relative density (water=1):                   | No data/Not applicable                                |
| Partition coefficient: n-octanol/water:       | No data/Not applicable                                |
| Decomposition temperature (°C):               | No data/Not applicable                                |
| Auto ignition temperature (°C):               | No data/Not applicable                                |
| pH value:                                     | No data/Not applicable                                |
| Explosion limit [% (v/v) ]:                   | Non explosives  |
| Relative vapor density (air=1):               | No data/Not applicable                                |
| Solubility:                                   | Insoluble in water                                    |
| Flammability (solid, gas):                    | Non-flammable   |
| Oxidizing properties:                         | The substance does not belong to oxidizing substances |

Section 10

Stability and Reactivity





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|                                 |                              |                      |
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## Stability and Reactivity

|                                   |  |
|-----------------------------------|--|
| Stability:                        | The product is chemically stable.  |
| Reactivity:                       | Stable under recommended storage and handling conditions.  |
| Incompatible materials:           | Strong oxidizing agents, strong acids and strong bases.  |
| Conditions to avoid:              | In contrast to the nature of the material, water, direct sunlight, high temperature and open fire.   |
| Hazardous decomposition products: | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11

Toxicological Information

## Acute toxicity

| Component(s)      | CAS No.   | LD <sub>50</sub> (Oral)                                 | LD <sub>50</sub> (Dermal) | LC <sub>50</sub> (Inhalation) |
|-------------------|-----------|---|---------------------------|-------------------------------|
| Glycine           | 56-40-6   | Rat: 7930mg/kg<br>Mouse: 4920mg/kg                      | No data                   | No data                       |
| EDTA Disodium     | 139-33-3  | Rat: 2000mg/kg<br>Mouse: 2050mg/kg<br>Rabbit: 2300mg/kg | No data                   | No data                       |
| Potassium sulfate | 7778-80-5 | Rat: 6600mg/kg  | No data                   | No data                       |

|   |   |
|---|---|
| Skin corrosion/irritation:                        | According to the existing data, the product is not classified.<br>Allergic persons to the substances contained, may be irritating to skin. Will not irritate to skin under normal conditions. |
| Eye corrosion/irritation:                         | According to the existing data, the product is not classified.  |
| Respiratory sensitization:                        | These products are not known to cause human respiratory sensitization.  |
| Skin sensitization:                               | These products are not known to cause skin sensitization.   |
| Germ cell mutagenicity:                           | According to the existing data, the product is not classified.  |
| Carcinogenicity:                                  | No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.   |
| Reproductive toxicity:                            | According to the existing data, the product is not classified.  |
| Specific target organ toxicity - single exposure: | According to the existing data, the product is not classified.  |





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|   |  |
|---|--|
| Specific target organ toxicity - repeated exposure: | According to the existing data, the product is not classified. |
| Aspiration hazard:                                  | According to the existing data, the product is not classified. |
| Additional reproductive toxicity hazards:           | According to the existing data, the product is not classified. |

Section 12

Ecological Information

Aquatic toxicity

|                                 |  |
|---------------------------------|--|
| Acute/Chronic aquatic toxicity: | This product contains no hazardous or toxic substances, and presents a negligible impact on the environment based on its reported use pattern. |
|---------------------------------|--|

Persistence and degradability

|              |          |
|--------------|----------|
| Persistence: | No data. |
|--------------|----------|

Bioaccumulative potential

|                  |   |
|------------------|---|
| Bioaccumulation: | The potential for bioaccumulation of this material in aquatic organisms is low. |
|------------------|---|

Mobility in soil

|           |          |
|-----------|----------|
| Mobility: | No data. |
|-----------|----------|

Results of PBT and vPvB assessment

| Component(s)      | CAS No.    | Results of PBT and vPvB assessment |
|-------------------|------------|------------------------------------|
| Filter paper      | 11132-73-3 | Not belong to PBT/vPvB             |
| Glycine           | 56-40-6    | Not belong to PBT/vPvB             |
| Sodium hydroxide  | 1310-73-2  | Not belong to PBT/vPvB             |
| EDTA Disodium     | 139-33-3   | Not belong to PBT/vPvB             |
| Potassium sulfate | 7778-80-5  | Not belong to PBT/vPvB             |

Section 13

Disposal Considerations

Waste disposal

|                 |  |
|-----------------|--|
| Residual waste: | Before disposal should refer to the relevant national and local laws and |
|-----------------|--|





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|                          |  |
|--------------------------|--|
|                          | regulation.<br>The generation of waste should be avoided or minimized wherever possible. Recommended ignition under control or transfer to a suitable container and arrange for collection by specialized disposal company if recycling is not feasible. |
| Contaminated packaging:  | The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.   |
| Disposal considerations: | Dispose of container and unused contents in accordance with national and local relevant regulations laws.  |

## Section 14 Transport Information

### Transport rules

|  |  |
|--|--|
|  | According to IATA DGR 62 <sup>nd</sup> Edition for transportation, IMO International Maritime Dangerous Goods Code (Amendment 39-18), European Agreement Concerning the International Carriage of Dangerous Goods by Road. The products are not subject to IATA DGR, IMDG and ADR/RID. |
|--|--|

### Label(s) required

|           |      |
|-----------|------|
| Label(s): | None |
|-----------|------|

### Road transport (UN-ADR)

|                                      |               |
|--------------------------------------|---------------|
| UN number:                           | Not regulated |
| UN proper shipping name:             | Not regulated |
| Transport hazard class(es)-Main:     | Not regulated |
| Transport hazard class(es)-Sub risk: | None          |
| Packaging group:                     | Not regulated |
| Special provisions:                  | None          |
| Hazard code:                         | None          |

### Air transport (ICAO-IATA/DGR)

|            |               |
|------------|---------------|
| UN number: | Not regulated |
|------------|---------------|

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|                                       |               |
|---------------------------------------|---------------|
| UN proper shipping name:              | Not regulated |
| Transport hazard class(es)-Main:      | Not regulated |
| Transport hazard class(es)-Sub risk:  | None          |
| Packaging group:                      | Not regulated |
| Special provisions for transportation | None          |
| ERG code:                             | None          |

## Sea transport (IMDG-CODE)

|  |               |
|--|---------------|
| UN number:                             | Not regulated |
| UN proper shipping name:               | Not regulated |
| Transport hazard class(es)-Main:       | Not regulated |
| Transport hazard class(es)-Sub risk:   | None          |
| Packaging group:                       | Not regulated |
| Special provisions for transportation: | None          |
| Marine pollutants (Yes/No):            | No            |
| EmS No.:                               | None          |

Section 15

Regulatory Information

## Safety, health and environmental regulations/legislation specific for the substance or mixture:

|   |  |
|---|--|
| 1 | Regulatory information: Reference to the local, national, US, EU, CA and international regulations |
|---|--|

|            |        |          |                   |            |
|------------|--------|----------|-------------------|------------|
| CAS No.    | TSCA   | IECSC    | EINECS/ELINCS/NLP | DSL/NDSL   |
| 11132-73-3 | Listed | Unlisted | Listed            | Listed DSL |





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| CAS No.   | TSCA   | IECSC  | EINECS/ELINCS/NLP | DSL/NDSL   |
|-----------|--------|--------|-------------------|------------|
| 56-40-6   | Listed | Listed | Listed            | Listed DSL |
| 1310-73-2 | Listed | Listed | Listed            | Listed DSL |
| 139-33-3  | Listed | Listed | Listed            | Listed DSL |
| 7778-80-5 | Listed | Listed | Listed            | Listed DSL |

## Section 16 Other Information

### Abbreviations or phrases

|                    |  |
|--------------------|--|
| ACGIH:             | American Conference of Governmental Industrial Hygienists                                      |
| ADR:               | European Agreement concerning the International Carriage of Dangerous Goods by Road            |
| CAS:               | Chemical Abstracts Service   |
| CLP:               | Classification, labeling and packaging   |
| EC:                | Council of Europe  |
| ECHA:              | European Chemicals Agency  |
| EINECS:            | European Inventory of Existing commercial Chemical Substances                                  |
| GHS:               | Globally Harmonized System of Classification and Labelling of Chemicals                        |
| IARC:              | International Agency for Research on Cancer  |
| IATA:              | International Air Transport Association  |
| RID:               | Regulation for rail International transportation of Dangerous goods                            |
| ICAO:              | International Civil Aviation Organization  |
| IMDG:              | International Maritime Dangerous Goods Code  |
| IC <sub>50</sub> : | Inhibitory Concern Triton 50%  |
| LC <sub>50</sub> : | Lethal Concentration 50%   |
| LD <sub>50</sub> : | Median Lethal Dose 50%   |
| MAPROL:            | International Convention for the Prevention of Pollution from Ships                            |
| REACH:             | REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals |

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|            |   |
|------------|---|
| STEL:      | Short Term Exposure Limit                             |
| TWA:       | Time Weighted Average                                 |
| MAC:       | Maximum Allowable Concentration                       |
| OSHA:      | Occupational Safety and Health Administration         |
| NIOSH:     | National Institute for Occupational Safety and Health |
| TLV:       | Threshold Limit Value                                 |
| TLV-TWA:   | Threshold Limit Value-Time Weighted Average           |
| TLV- STEL: | Threshold Limit Value-Short term Exposure Limit       |
| PC-TWA:    | Permissible Concentration-Time Weighted Average       |
| PC-STEL:   | Permissible Concentration-Short Term Exposure Limit   |
| PEL:       | Permissible Exposure Limit                            |
| OELs:      | Occupational Exposure Limits                          |

## Reference

|   |   |
|---|---|
| 1 | IARC  |
| 2 | OECD: The Global Portal to Information on Chemical Substances |
| 3 | U.S. Department of Transportation: ERG                        |
| 4 | Germany GESTIS-database on hazard substance                   |
| 5 | CAMEO Chemicals   |
| 6 | NLM: ChemIDplus   |
| 7 | EPA: Integrated Risk Information System                       |
| 8 | IPCS: The International Chemical Safety Cards (ICSC)          |

## Disclaimer

|   |   |
|---|---|
| 1 | The above information is believed to be correct but we can not guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.                  |
| 2 | TUV-Laboratory ensures the objectivity and fairness of the test and fulfills the confidentiality obligations of the applicant's information. The applicant is responsible for the authenticity of the submitted samples and information. The results shown in this report relate only to the samples tested. The test results only reflect the evaluation of the sample being tested and are not used for |

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# Safety Data Sheet

|                                 |                              |                      |
|---------------------------------|------------------------------|----------------------|
| Product Name: water test strips | Initial Date: Oct. 20, 2021  | Version: 1.0         |
| SDS No.: EMS.211.020.003.WID    | Revision Date: Oct. 20, 2021 | Item No.: 21A431A236 |

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**Product photo(s)**



\*\*\*END OF REPORT\*\*\*

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