

## 20% SDS Solution

Version number: GHS 3.0  
Replaces version of: 2020-05-02 (GHS 2)

Revision: 2022-05-17

### SECTION 1: Identification

#### 1.1 Product identifier

Name **20% SDS Solution**  
Product number **S7295**

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

Relevant identified uses **General use**

#### 1.3 Details of the supplier of the safety data sheet

Teknova  
2290 Bert Dr.  
Hollister California 95023  
United States

Telephone: 831-637-1100  
Telefax: 831-637-2355  
e-mail: info@teknova.com  
Website: www.teknova.com

#### 1.4 Emergency telephone number

CHEM TREC Emergency Phone Number **(800)-424-9300**

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class  | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| A.2     | skin corrosion/irritation   | 2        | Skin Irrit. 2             | H315             |
| A.3     | serious eye damage/eye irritation   | 1        | Eye Dam. 1                | H318             |
| A.8R    | specific target organ toxicity - single exposure (respiratory tract irritation) | 3        | STOT SE 3                 | H335             |

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word **danger**

- Pictograms

GHS05, GHS07



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### - Hazard statements

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

### - Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves.  
P302+P352 If on skin: Wash with plenty of water.  
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a poison center/doctor.  
P321 Specific treatment (see on this label).  
P362 Take off contaminated clothing and wash it before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling Sodium dodecyl sulphate

## 2.3 Other hazards

Hazards not otherwise classified

Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

| Name of substance       | Identifier          | Wt% | Classification acc. to GHS   |
|-------------------------|---------------------|-----|--|
| DI Water                | CAS No<br>7732-18-5 | 80  |  |
| Sodium dodecyl sulphate | CAS No<br>151-21-3  | 20  | Acute Tox. 4 / H302<br>Acute Tox. 4 / H332<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318<br>STOT SE 3 / H335<br>Flam. Sol. 2 / H228 |

For full text of abbreviations: see SECTION 16.

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**SECTION 4: First-aid measures****4.1 Description of first-aid measures****General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Water jet

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### 7.3 Specific end use(s)

See section 16 for a general overview.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

This information is not available.

| Relevant DNELs of components of the mixture |          |           |                       |                                    |                   |                            |
|---|----------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No.  | End-point | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
| Sodium dodecyl sulphate                     | 151-21-3 | DNEL      | 285 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Sodium dodecyl sulphate                     | 151-21-3 | DNEL      | 4,060 mg/kg bw/day    | human, dermal                      | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture |          |           |                 |                       |                              |                              |
|---|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No.  | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| Sodium dodecyl sulphate                     | 151-21-3 | PNEC      | 0.176 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Sodium dodecyl sulphate                     | 151-21-3 | PNEC      | 0.018 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Sodium dodecyl sulphate                     | 151-21-3 | PNEC      | 1.35 mg/l       | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Sodium dodecyl sulphate                     | 151-21-3 | PNEC      | 6.97 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Sodium dodecyl sulphate                     | 151-21-3 | PNEC      | 0.697 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Sodium dodecyl sulphate                     | 151-21-3 | PNEC      | 1.29 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |

#### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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**- Type of material**

Nitrile

**- Other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.  
Wash hands thoroughly after handling.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**Appearance**

|                |                       |
|----------------|-----------------------|
| Physical state | liquid                |
| Color          | no data available     |
| Particle       | not relevant (liquid) |
| Odor           | no data available     |

**Other safety parameters**

|   |   |
|---|---|
| pH (value)                              | not determined                                |
| Melting point/freezing point            | not determined                                |
| Initial boiling point and boiling range | 100 °C  |
| Flash point                             | 170 °C  |
| Evaporation rate                        | Not determined                                |
| Flammability (solid, gas)               | not relevant, (fluid)                         |
| Vapor pressure                          | ≤0.18 Pa at 20 °C                             |
| Density                                 | not determined                                |
| Vapor density                           | not determined                                |
| Relative density                        | Information on this property is not available |
| Solubility(ies)                         | not determined                                |

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### Partition coefficient

|                             |  |
|-----------------------------|--|
| - n-octanol/water (log KOW) | this information is not available                        |
| Auto-ignition temperature   | 310.5 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity                   | not determined   |
| Explosive properties        | none   |
| Oxidizing properties        | none   |

### 9.2 Other information

|  |  |
|--|--|
| Temperature class (USA, acc. to NEC 500) | T2 (maximum permissible surface temperature on the equipment: 300°C) |
|--|--|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

The classification criteria for these hazard classes are not met.

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### Acute toxicity estimate (ATE) of components of the mixture

| Name of substance       | CAS No   | Exposure route        | ATE         |
|-------------------------|----------|-----------------------|-------------|
| Sodium dodecyl sulphate | 151-21-3 | oral                  | 1,200 mg/kg |
| Sodium dodecyl sulphate | 151-21-3 | inhalation: dust/mist | 1.5 mg/l/4h |

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitization

The classification criteria for these hazard classes are not met.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

The classification criteria for this hazard class are not met.

### Specific target organ toxicity - repeated exposure

The classification criteria for this hazard class are not met.

### Aspiration hazard

The classification criteria for this hazard class are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

Harmful to aquatic life.

### Aquatic toxicity (acute) of components of the mixture

| Name of substance       | CAS No   | Endpoint | Value     | Species | Exposure time |
|-------------------------|----------|----------|-----------|---------|---------------|
| Sodium dodecyl sulphate | 151-21-3 | LC50     | 29 mg/l   | fish    | 96 h          |
| Sodium dodecyl sulphate | 151-21-3 | ErC50    | >120 mg/l | algae   | 72 h          |
| Sodium dodecyl sulphate | 151-21-3 | EC50     | 53 mg/l   | algae   | 72 h          |

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.



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### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Information on this property is not available.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

|  |   |
|--|---|
| <b>14.1 UN number</b>                                      | not assigned  |
| <b>14.2 UN proper shipping name</b>                        | not relevant  |
| <b>14.3 Transport hazard class(es)</b>                     | not assigned  |
| <b>14.4 Packing group</b>                                  | not assigned  |
| <b>14.5 Environmental hazards</b>                          | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                   | There is no additional information.                                   |
| <b>14.7 Transport in bulk according to IMO instruments</b> | The cargo is not intended to be carried in bulk.                      |

### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### National regulations (United States)

##### Toxic Substance Control Act (TSCA)

all ingredients are listed

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

##### Clean Air Act

none of the ingredients are listed

##### Right to Know Hazardous Substance List

- Hazardous Substance List (NJ-RTK)

none of the ingredients are listed

##### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

##### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description  |
|---------------------|--------|--|
| Chronic             | /      | none   |
| Health              | 3      | major injury likely unless prompt action is taken and medical treatment is given   |
| Flammability        | 0      | material that will not burn under typical fire conditions  |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |  |

##### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

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| Category       | Degree of hazard | Description  |
|----------------|------------------|--|
| Flammability   | 0                | material that will not burn under typical fire conditions                        |
| Health         | 3                | material that, under emergency conditions, can cause serious or permanent injury |
| Instability    | 0                | material that is normally stable, even under fire conditions                     |
| Special hazard |                  |  |

### National inventories

| Country | Inventory | Status                     |
|---------|-----------|----------------------------|
| US      | TSCA      | all ingredients are listed |

#### Legend

TSCA Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information, including date of preparation or last revision

#### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 2.3     | Results of PBT and vPvB assessment:<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |  | yes             |
| 3.2     |  | Description of the mixture:<br>change in the listing (table)                       | yes             |
| 9.1     |  | Particle:<br>not relevant (liquid)   | yes             |
| 9.1     | Flash point:<br>not determined   | Flash point:<br>170 °C   | yes             |
| 9.1     | Explosive limits:<br>not determined  |  | yes             |
| 12.6    | Other adverse effects:<br>Data are not available.  | Endocrine disrupting properties:<br>Information on this property is not available. | yes             |
| 14.1    | UN number:<br>not subject to transport regulations   | UN number:<br>not assigned   | yes             |
| 14.2    | UN proper shipping name:<br>not assigned   | UN proper shipping name:<br>not relevant   | yes             |
| 15.1    | VOC content:<br>Regulated Volatile Organic Compounds (VOC-EPA): Regulated Volatile Organic Compounds (VOC-Cal ARB):          |  | yes             |

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### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Disclaimer

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculation are based on information furnished by the manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in section 1. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Teknova, inc. Shall not be held liable for any damage resulting from handling or from contact with the above product.

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